WEEKLY WATER QUALITY SUMMARY REPORT

TURBIDIMETER: LaMotte2020we **Serial #:** 665-0411 **DATE CALIBRATED:** 12/20/13 **PH METER:** Oakton CON10 **Serial #:** 478716 **DATE CALIBRATED:** 9/24/2013

POC #	DATE INSPECTED	TIME	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	WEATHER	INSPECTED BY
POC-1	1/8/2014	10AM	10.1	<25 NTU*	7.8	6.5-8.5		X	N/A	N/A	POC-1 is reported under the Construction Stormwater Permit	CLEAR	0.84	RAIN.	BOBBY MASHEK
POC-2	1/8/2014	10 AM	6.7	<50 NTU	7.4	6.5-8.5		X		X		CLEAR	0.84	RAIN	BOBBY MASHEK
POC-3	NO DISCHARGE	—	—	<25 NTU*	—	6.5-8.5	—	—	N/A	N/A	POC-3 is reported under the Construction Stormwater Permit	N/A	—	—	BOBBY MASHEK
POC-4	1/8/2014	11 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to Stephanie Jackson's (Ecology) email to Brock Andrews (Kiewit-General) on 12/20/2011, monitoring for pH or turbidity is not required.	CLEAR	0.84	RAIN	BOBBY MASHEK
POC-5	1/8/2014	11 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to condition S1.C.3.g, this is clean dewatering water being infiltrated to the ground, and managed according to special condition S.9.d.10.	CLEAR	0.84	RAIN	BOBBY MASHEK
POC-6 (GH1)	1/8/2014	7:30AM	18.1	<50 NTU	7.8	6.5-8.5		X		X		CLEAR	0.84	RAIN	BOBBY MASHEK
TEMP POC-6	1/6/2014	2 PM	10.1	<50 NTU	7.9	6.5-8.5		X	N/A	N/A		CLEAR	0.0	PARTLY CLOUDY	BOBBI MASHEK
POC-7 (GH2)	NO DISCHARGE	—	—	<50 NTU	—	6.5-8.5	—	—	N/A	N/A		N/A	—	—	BOBBY MASHEK
POC-8 (GH3)	NO DISCHARGE	—	—	<50 NTU	—	6.5-8.5	—	—	—	—		N/A	—	—	BOBBY MASHEK

* Under the Construction Stormwater Permit, if NTU is 26 – 249, modify BMP & SWPPP within 7 days to get back to <25 NTU. If greater than 250 NTU, notify Ecology within 24 hours by phone as a permit violation.

COMMENTS:

JAN. 5 2014 – JAN. 11 2014

WEEKLY WATER QUALITY SUMMARY REPORT

TURBIDIMETER: LaMotte2020we **Serial #:** 665-0411 **DATE CALIBRATED:** ~~1/11/2014~~ 12/20/13 **PH METER:** Oakton CON10 **Serial #:** 478716 **DATE CALIBRATED:** 1/11/2014

POC #	DATE INSPECTED	TIME	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	WEATHER	INSPECTED BY
							YES	NO	YES	NO					
POC-1	1/14/2014	11 AM	8.5	<25 NTU*	7.6	6.5-8.5		X	N/A	N/A	POC-1 is reported under the Construction Stormwater Permit	CLEAR	0.28	CLOUDY, MOSTLY DRY	BOBBI MASHEK
POC-2	1/15/2014	8:30 AM	5.5	<50 NTU	7.4	6.5-8.5		X		X		CLEAR	0.0		BOBBI MASHEK
POC-3	NO DISCHARGE	—	—	<25 NTU*	—	6.5-8.5	/	/	N/A	N/A	POC-3 is reported under the Construction Stormwater Permit	NO DISCHARGE	/		BOBBI MASHEK
POC-4	1/15/2014	8 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to Stephanie Jackson's (Ecology) email to Brock Andrews (Kiewit-General) on 12/20/2011, monitoring for pH or turbidity is not required.	CLEAR	0.0		BOBBI MASHEK
POC-5	1/15/2014	8 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to condition S1.C.3.g, this is clean dewatering water being infiltrated to the ground, and managed according to special condition S.9.d.10.	CLEAR	0.0		BOBBI MASHEK
POC-6 (GH1)	1/14/2014	11 AM	4.7	<50 NTU	7.9	6.5-8.5		X		X		CLEAR	0.28	CLOUDY, MOSTLY DRY	BOBBI MASHEK
TEMP POC-6	1/14/2014	11 AM	20.5	<50 NTU	7.8	6.5-8.5		X	N/A	N/A		CLEAR	0.28	CLOUDY MOSTLY DRY	BOBBI MASHEK
POC-7 (GH2)	NO DISCHARGE	—	—	<50 NTU	—	6.5-8.5	/	/	N/A	N/A		NO DISCHARGE	/		BOBBI MASHEK
POC-8 (GH3)	1/16/2014	3 PM	31.9	<50 NTU	8.2	6.5-8.5		X		X		CLEAR	0	PARTLY CLOUDY	BOBBI MASHEK

* Under the Construction Stormwater Permit, if NTU is 26 – 249, modify BMP & SWPPP within 7 days to get back to <25 NTU. If greater than 250 NTU, notify Ecology within 24 hours by phone as a permit violation.

COMMENTS:

JAN. 12, 2014 – JAN. 18, 2014

WEEKLY WATER QUALITY SUMMARY REPORT

TURBIDIMETER: LaMotte2020we **Serial #:** 665-0411 **DATE CALIBRATED:** 1/11/2014 **PH METER:** Oakton CON10 **Serial #:** 478716 **DATE CALIBRATED:** 1/11/2014

POC #	DATE INSPECTED	TIME	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	WEATHER	INSPECTED BY
							YES	NO	YES	NO					
POC-1	1/14/2014	11 AM	8.5	<25 NTU*	7.6	6.5-8.5		X	N/A	N/A	POC-1 is reported under the Construction Stormwater Permit	CLEAR	0.28	CLOUDY, MOSTLY DRY	BOBBI MASHEK
POC-2	1/15/2014	8:30 AM	5.5	<50 NTU	7.4	6.5-8.5		X		X		CLEAR	0.0		BOBBI MASHEK
POC-3	NO DISCHARGE	—	—	<25 NTU*	—	6.5-8.5	/	/	N/A	N/A	POC-3 is reported under the Construction Stormwater Permit	NO DISCHARGE	/		BOBBI MASHEK
POC-4	1/15/2014	8 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to Stephanie Jackson's (Ecology) email to Brock Andrews (Kiewit-General) on 12/20/2011, monitoring for pH or turbidity is not required.	CLEAR	0.0		BOBBI MASHEK
POC-5	1/15/2014	8 AM	NOT REQUIRED	<25 NTU*	NOT REQUIRED	6.5-8.5		X	N/A	N/A	Pursuant to condition S1.C.3.g, this is clean dewatering water being infiltrated to the ground, and managed according to special condition S.9.d.10.	CLEAR	0.0		BOBBI MASHEK
POC-6 (GH1)	1/14/2014	11 AM	4.7	<50 NTU	7.9	6.5-8.5		X		X		CLEAR	0.28	CLOUDY, MOSTLY DRY	BOBBI MASHEK
TEMP POC-6	1/14/2014	11 AM	20.5	<50 NTU	7.8	6.5-8.5		X	N/A	N/A		CLEAR	0.28	CLOUDY MOSTLY DRY	BOBBI MASHEK
POC-7 (GH2)	NO DISCHARGE	—	—	<50 NTU	—	6.5-8.5	/	/	N/A	N/A		NO DISCHARGE	/		BOBBI MASHEK
POC-8 (GH3)	1/16/2014	3 PM	31.9	<50 NTU	8.2	6.5-8.5		X		X		CLEAR	0	PARTLY CLOUDY	BOBBI MASHEK

* Under the Construction Stormwater Permit, if NTU is 26 – 249, modify BMP & SWPPP within 7 days to get back to <25 NTU. If greater than 250 NTU, notify Ecology within 24 hours by phone as a permit violation.

COMMENTS:

JAN. 12, 2014 – JAN. 18, 2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JAN. 19 – JAN. 25, 2014

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	OAKTON CON10
Serial #:	478716
Calibration Date:	1/11/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	1/20/2014	6:15AM	Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.0	PARTLY CLOUDY	37-51	BOBBI MASHEK
POC-6 (GH1)	1/21/2014	6:15AM	Grab Sample	11.8	<50 NTU	7.4	6.5-8.5		X		X	NO	CLEAR	0.0	PARTLY CLOUDY	34-48	BOBBI MASHEK
TEMP POC-6	1/20/2014	6:15AM	Grab Sample	31.4	<50 NTU	7.9	6.5-8.5		X		X	NO	CLEAR	0.0	PARTLY CLOUDY	37-51	BOBBI MASHEK
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

THERE WAS VERY LITTLE RAIN THIS WEEK, ONLY 0.03 INCHES TOTAL FOR THE WEEK.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JAN. 19 – JAN. 25, 2014

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	OAKTON CON10
Serial #:	478716
Calibration Date:	1/11/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	1/20/2014	6:15AM	Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.0	PARTLY CLOUDY	37-51	BOBBI MASHEK
POC-6 (GH1)*	1/21/2014	6:15AM	Grab Sample	11.8	<50 NTU	7.4	6.5-8.5		X		X	NO	CLEAR	0.0	PARTLY CLOUDY	34-48	BOBBI MASHEK
TEMP POC-6	1/20/2014	6:15AM	Grab Sample	31.4	<50 NTU	7.9	6.5-8.5		X		X	NO	CLEAR	0.0	PARTLY CLOUDY	37-51	BOBBI MASHEK
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

THERE WAS VERY LITTLE RAIN THIS WEEK, ONLY 0.03 INCHES TOTAL FOR THE WEEK.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 26 – FEB 1ST 2014

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	OAKTON CON 10
Serial #:	478716
Calibration Date:	1/11/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	1/31/14	6:30 AM	Grab Sample	12.6	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.23	LIGHT MIST	47/39	BOBBI MASHEK
* POC-2	1/29/14	8:30	Grab Sample	21.7	<50 NTU	7.2	6.5-8.5		X		X	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	BOBBI MASHEK
POC-4	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	BOBBI MASHEK
POC-5	1/29/14	8:30 AM	Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
POC-6 (GH1)	1/31/14	6:30 AM	Grab Sample	14.3	<50 NTU	7.6	6.5-8.5		X			NO	CLEAR	0.23	LIGHT MIST	47/39	BOBBI MASHEK
TEMP POC-6	1/29/14	8:30 AM	Grab Sample	42.2	<50 NTU	8.3	6.5-8.5		X		X	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
** POC-7 (GH2)	1/30/14	4:00 PM	Grab Sample	7.5	<50 NTU	7.9	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.38	SHOWERS	48/40	NORMA HERNANDEZ
POC-8 (GH3)	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	/	/	/	/	/	BOBBI MASHEK
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

* SAMPLE FROM POC-2 ON 1/29/14 INCLUDES TREATED PROCESS WATER FROM CAL-PORTLAND'S BATCH PLANT

** DISCHARGE PIPE FOR POC-7 WAS CLEANED/VACUMMED OUT ON 1/20/2014 DUE TO SEDIMENT FROM HIGH-TIDES SETTLING INSIDE PIPE. THE GATE FOR THIS DISHARGE POINT HAS BEEN SHUT CLOSED UNTIL REPAIRS + CLEANING OF THIS DRAINAGE SYSTEM WAS COMPLETED. ON 1/28 AND 1/29 WE CHECCED THE DISCHARGE PIPE WITH A VIDEO CAMARA (INSIDE THE PIPE) AND VISUALLY FOUND NO EVIDENCE OF A BREACH OR BREAK ALONG THE PIPE RUN. WE BELIEVE THAT PREVIOUS HIGH TURBIDITY WAS CAUSED BY THE SITE WATER PICKING UP SEDIMENT DEPOSITED INSIDE THIS DISHARGE PIPE OVER A PERIOD OF SEVERAL DAYS/WEEKS.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 26 – FEB 1ST 2014

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	6665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	OAKTON CON10
Serial #:	478716
Calibration Date:	1/11/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	1/31/14	6:30 AM	Grab Sample	12.6	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.23	LIGHT MIST	47/39	BOBBI MASHEK
* POC-2	1/29/14	8:30	Grab Sample	21.7	<50 NTU	7.2	6.5-8.5		X		X	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	BOBBI MASHEK
POC-4	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	BOBBI MASHEK
POC-5	1/29/14	8:30 AM	Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
POC-6 (GH1)	1/31/14	6:30 AM	Grab Sample	14.3	<50 NTU	7.6	6.5-8.5		X			NO	CLEAR	0.23	LIGHT MIST	47/39	BOBBI MASHEK
TEMP POC-6	1/29/14	8:30 AM	Grab Sample	42.2	<50 NTU	8.3	6.5-8.5		X		X	NO	CLEAR	0.64	LIGHT RAIN	50/45	BOBBI MASHEK
** POC-7 (GH2)	1/30/14	4:00 PM	Grab Sample	7.5	<50 NTU	7.9	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.38	SHOWERS	48/40	NORMA HERNANDEZ
POC-8 (GH3)	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	/	/	/	/	/	BOBBI MASHEK
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

* SAMPLE FROM POC-2 ON 1/29/14 INCLUDES TREATED PROCESS WATER FROM CAL-PORTLAND'S BATCH PLANT

** DISCHARGE PIPE FOR POC-7 WAS CLEANED/VACUMMED OUT ON 1/20/2014 DUE TO SEDIMENT FROM HIGH-TIDES SETTLING INSIDE PIPE. THE GATE FOR THIS DISHARGE POINT HAS BEEN SHUT CLOSED UNTIL REPAIRS + CLEANING OF THIS DRAINAGE SYSTEM WAS COMPLETED. ON 1/28 AND 1/29 WE CHECKED THE DISCHARGE PIPE WITH A VIDEO CAMARA (INSIDE THE PIPE) AND VISUALLY FOUND NO EVIDENCE OF A BREACH OR BREAK ALONG THE PIPE RUN. WE BELIEVE THAT PREVIOUS HIGH TURBIDITY WAS CAUSED BY THE SITE WATER PICKING UP SEDIMENT DEPOSITED INSIDE THIS DISCHARGE PIPE OVER A PERIOD OF SEVERAL DAYS/WEEKS.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: FEB. 2 – FEB. 8, 2014

TURBIDIMETER	
Model:	
Serial #:	
Calibration Date:	

pH Meter	
Model:	
Serial #:	
Calibration Date:	

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A				COLD + MOSTLY DRY	46/21	NORMA HERNANDEZ
POC-2	SAMPLE NOT TAKEN		Grab Sample		<50 NTU		6.5-8.5		X		X						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	SAMPLE NOT TAKEN OK VISUAL		Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A						
POC-6 (GH1)*	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
TEMP POC-6	SAMPLE NOT TAKEN	BUT VISUAL OK	Grab Sample		<50 NTU		6.5-8.5		X		X						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

TOTAL RAINFALL THIS WEEK = 0.0"

THIS WAS A DRY WEEK, NO RAIN. DISCHARGES FROM POC-5 TEMP-POC-6, AND POC-2 WERE VERY CLEAR. PER SAND + GRAVEL PERMIT, SAMPLING IS ONLY REQUIRED 2X PER MONTH. WE WILL SAMPLE THE NEXT 3 WEEKS.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
FEB. 2 – FEB. 8, 2014

TURBIDIMETER	
Model:	
Serial #:	
Calibration Date:	

pH Meter	
Model:	
Serial #:	
Calibration Date:	

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A				COLD + MOSTLY DRY	46/21	NORMA HERNANDEZ
POC-2	SAMPLE NOT TAKEN		Grab Sample		<50 NTU		6.5-8.5		X		X						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	SAMPLE NOT TAKEN OK VISUAL		Grab Sample	NOT REQUIRED	<50 NTU	NOT REQUIRED	6.5-8.5		X	N/A	N/A						
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
TEMP POC-6	SAMPLE NOT TAKEN	BUT VISUAL OK	Grab Sample		<50 NTU		6.5-8.5		X		X						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5				X						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

TOTAL RAINFALL THIS WEEK = 0.0"

THIS WAS A DRY WEEK, NO RAIN. DISCHARGES FROM POC-5, TEMP-POC-6, AND POC-2 WERE VERY CLEAR. PER SAND + GRAVEL PERMIT, SAMPLING IS ONLY REQUIRED 2X PER MONTH. WE WILL SAMPLE THE NEXT 3 WEEKS.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
FEB. 9 – FEB. 15, 2014

TURBIDIMETER	
Model:	LA MOTTE 2020we
Serial #:	665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	HACH HQ 11d
Serial #:	091000003545
Calibration Date:	2/5/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	2/14/2014	7:15AM	Grab Sample	28.4	<50 NTU	7.9	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.05	RAIN	51/40	BOBBI MASHEK
POC-2	2/11/2014	8:00AM	Grab Sample	11.7	<50 NTU	6.7	6.5-8.5		X	✓		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	NOT REQ'D	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	NORMA HERNANDEZ
POC-4	2/14/2014	3:00PM	Grab Sample	NOT REQ'D	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	N/A	N/A	0.05	RAIN	51/40	NORMA HERNANDEZ
POC-5	2/10/2014	6:30AM	Grab Sample	NOT REQUIRED	<50 NTU	7.7	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.28	RAIN	49/37	BOBBI MASHEK
POC-6 (GH1)	2/11/2014	8:00AM	Grab Sample	21.4	<50 NTU	7.9	6.5-8.5		X	✓		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
TEMP POC-6	2/11/2014	8:00AM	Grab Sample	16.8	<50 NTU	6.9	6.5-8.5		X	✓		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
POC-7 (GH2)	2/11/2014	2:00PM	Grab Sample	6.1	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	NORMA HERNANDEZ
POC-8 (GH3)	2/11/2014	3:00PM	Grab Sample	11.7	<50 NTU	8.1	6.5-8.5		X	✓		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	NORMA HERNANDEZ
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

2/12/2014: STORMWATER FROM BIOSWALE @ NORTH (POC-3) WAS ACCIDENTALLY DISCHARGED TO STORM CATCH BASIN @ ~~HERE~~ EAST GATE. WATER WAS SAMPLED, AND TEST RESULTS ARE: 45.3 NTU 7.8 pH
NOTE THAT THIS CATCH BASIN HAS A FILTER FABRIC INSERT, WHICH WOULD REDUCE THE TURBIDITY VALUES.

2/13/2014: ECOLOGY SITE INSPECTION (CHRIS JOHNSON). NO VIOLATIONS. CLARIFIED MONITORING REQUIREMENTS FOR:
POC-3 IS OK TO PUMP TO EAST DITCH (NEAR POC-4). CHECK FOR pH and OIL SHEEN.
POC-4, check for pH and oil sheen – turbidity not required
POC-5, check for pH and oil sheen – turbidity not required.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
FEB. 9 - FEB. 15, 2014

TURBIDIMETER	
Model:	LA MOTTE 2020we
Serial #:	0605-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	HACH HQ 11d
Serial #:	091000003545
Calibration Date:	2/5/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	2/14/2014	7:15AM	Grab Sample	28.4	<50 NTU	7.9	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.05	RAIN	51/40	BOBBI MASHEK
POC-2	2/11/2014	8:00AM	Grab Sample	11.7	<50 NTU	6.7	6.5-8.5		X	✓ TM		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	NOT REQ'D	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	/	/	/	/	/	NORMA HERNANDEZ
POC-4	2/14/2014	3:00PM	Grab Sample	NOT REQ'D	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	N/A	N/A	0.05	RAIN	51/40	NORMA HERNANDEZ
POC-5	2/14/2014	6:30AM	Grab Sample	NOT REQUIRED	<50 NTU	7.7	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.28	RAIN	49/37	BOBBI MASHEK
POC-6 (GH1)	2/11/2014	8:00AM	Grab Sample	21.4	<50 NTU	7.9	6.5-8.5		X	✓ TM		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
TEMP POC-6	2/11/2014	8:00AM	Grab Sample	16.8	<50 NTU	6.9	6.5-8.5		X	✓ TM		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	BOBBI MASHEK
POC-7 (GH2)	2/11/2014	2:00PM	Grab Sample	6.1	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	NORMA HERNANDEZ
POC-8 (GH3)	2/11/2014	3:00PM	Grab Sample	11.7	<50 NTU	8.1	6.5-8.5		X	✓ TM		NO	CLEAR/NO CHANGE	0.55	RAIN	49/40	NORMA HERNANDEZ
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

2/12/2014: STORMWATER FROM BIOSWALE @ NORTH (POC-3) WAS ACCIDENTALLY DISCHARGED TO STORM CATCH BASIN @ ~~HERE~~ EAST GATE. WATER WAS SAMPLED, AND TEST RESULTS ARE: 45.3 NTU 7.8 pH
NOTE THAT THIS CATCH BASIN HAS A FILTER FABRIC INSERT, WHICH WOULD REDUCE THE TURBIDITY VALUES.

2/13/2014: ECOLOGY SITE INSPECTION (CHRIS JOHNSON). NO VIOLATIONS. CLARIFIED MONITORING REQUIREMENTS FOR:
POC-3 IS OK TO PUMP TO EAST DITCH (NEAR POC-4). CHECK FOR pH and OIL SHEEN.
POC-4, check for pH and oil sheen - turbidity not required
POC-5, check for pH and oil sheen - turbidity not required.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
FEB. 16 - FEB. 22, 2014

TURBIDIMETER	
Model:	LaMOTTE 2020 WE
Serial #:	665-0411
Calibration Date:	12/20/2013

pH Meter	
Model:	HI 98127
Serial #:	01
Calibration Date:	2/14/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	2/17/14	11:30am	Grab Sample	12.2	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	1.82	RAIN	49/42	BOBBI MASHEK
POC-2	2/17/14	11:30am	Grab Sample	6.9	<50 NTU	7.0	6.5-8.5		X		X	NO	NO CHANGE	1.82	RAIN	49/42	BOBBI MASHEK
POC-3	2/18/14	8:30am	Grab Sample	NOT REQ'D	<50 NTU	8.0	6.5-8.5		X	N/A	N/A	N/A	N/A	0.62	RAIN	50/40	NORMA HERNANDEZ
POC-4	2/18/14	8:30am	Grab Sample	NOT REQ'D	<50 NTU	8.1	6.5-8.5		X	N/A	N/A	N/A	N/A	0.62	RAIN	50/40	NORMA HERNANDEZ
POC-5	2/19/14	7:30am	Grab Sample	NOT REQUIRED	<50 NTU	7.2	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.48	RAIN	46/36	BOBBI MASHEK
POC-6 (GH1)	2/17/14	11:30am	Grab Sample	20.4	<50 NTU	7.9	6.5-8.5		X		X	NO	NO CHANGE	1.82	RAIN	49/42	BOBBI MASHEK
TEMP POC-6	2/19/14	7:30am	Grab Sample	19.8	<50 NTU	7.3	6.5-8.5		X		X	NO	NO CHANGE	0.48	RAIN	46/36	BOBBI MASHEK
POC-7 (GH2)	2/18/14	8:45am	Grab Sample	5.8	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.62	RAIN	50/40	NORMA HERNANDEZ
POC-8 (GH3)	2/17/14	11:30am	Grab Sample	22.7	<50 NTU	8.0	6.5-8.5		X		X	NO	NO CHANGE	1.82	RAIN	49/42	BOBBI MASHEK
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
FEB. 23 – MAR. 1, 2014

TURBIDIMETER	
Model:	La Motte 2020 WE
Serial #:	0605-0411
Calibration Date:	~~12/20/2013~~ 2/24/2014

pH Meter	
Model:	HI98127
Serial #:	01
Calibration Date:	2/14/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	2/24/14	11:30am	Grab Sample	26.6	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.20	RAIN		BOBBI MASHEK
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	2/24/14	3:00pm	Grab Sample	NOT REQ'D	<50 NTU	8.1	6.5-8.5		X	N/A	N/A	N/A	N/A	0.44	RAIN		NORMA HERNANDEZ
POC-5	2/26/14	9:00am	Grab Sample	21.2 D	<50 NTU	7.3	6.5-8.5		X	N/A	N/A	N/A	N/A	0	CLEAR, DRY		BOBBI MASHEK
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	2/26/14	9:00am	Grab Sample	19.0	<50 NTU	7.5	6.5-8.5		X		X	NO	NO CHANGE	0	CLEAR, DRY		BOBBI MASHEK
POC-7 (GH2)	2/24/14	3:15pm	Grab Sample	8.4	<50 NTU	7.4	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.44	RAIN		NORMA HERNANDEZ
POC-8 (GH3)	2/25/14	11:00am	Grab Sample	30.6	<50 NTU	8.0	6.5-8.5		X		X	NO	NO CHANGE				BOBBI MASHEK
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	0665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	3/3/2014

MONITORING WEEK OF:
MARCH 2nd – MARCH 8th, 2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	3/4/2014	8:00AM	Grab Sample	11.5	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NO	NO CHANGE		RAIN		NORMA HERNANDEZ
POC-2	3/5/2014	7:45AM	Grab Sample	26.9	<50 NTU	8.0	6.5-8.5		X		X	NO	NO CHANGE		RAIN		NORMA HERNANDEZ
*POC-3	3/4/2014	11 AM	Grab Sample	135.0	<50 NTU	7.6	6.5-8.5		X	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample	NOT REQUIRED	<50 NTU		6.5-8.5			N/A	N/A						
POC-6 (GH1)	3/4/2014	8:00AM	Grab Sample	23.6	<50 NTU	7.4	6.5-8.5		X		X	NO	NO CHANGE		RAIN		NORMA HERNANDEZ
TEMP POC-6	3/5/2014	8:00AM	Grab Sample	25.0	<50 NTU	7.5	6.5-8.5		X		X	NO	NO CHANGE		RAIN		NORMA HERNANDEZ
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	3/4/2014	8:00 AM	Grab Sample	29.3	<50 NTU	7.5	6.5-8.5		X		X	NO	NO CHANGE		RAIN		NORMA HERNANDEZ
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

*SEE LETTER TO ECOLOGY 3/31/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MARCH 9th – MARCH 15th, 2014

TURBIDIMETER	
Model:	LA MOTTE 2020 WE
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	3/3/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	3/14/14	7:40am	Grab Sample	12.4	<50 NTU	7.4	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.96	RAIN		NORMA HERNANDEZ
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3	3/14/14	2:45pm	Grab Sample	15.9	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.96	CLEAR		NORMA HERNANDEZ
POC-4	3/14/14	8:30am	Grab Sample	6.6	<50 NTU	7.7	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.96	RAIN		NORMA HERNANDEZ
POC-5	3/14/14	8:35am	Grab Sample	NOT REQUIRED	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.96	RAIN		NORMA HERNANDEZ
POC-6 (GH1)	3/14/14	7:00AM	Grab Sample	12.1	<50 NTU	7.4	6.5-8.5		X		X	NO	NO CHANGE	0.96	RAIN		NORMA HERNANDEZ
TEMP POC-6	3/14/14	8:35am	Grab Sample	12.4	<50 NTU	7.6	6.5-8.5		X		X	NO	NO CHANGE	0.96	RAIN		NORMA HERNANDEZ
POC-7 (GH2)	3/14/14	8:40am	Grab Sample	3.63	<50 NTU	8.1	6.5-8.5		X	N/A	N/A			0.96	RAIN		NORMA HERNANDEZ
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MARCH 16TH — MARCH 22, 2014

TURBIDIMETER	
Model:	LA MOTTE
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	3/3/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	3/19	2pm	Grab Sample	13.8	<50 NTU	7.3	6.5-8.5		X	N/A	N/A	NO	clear	0.19	SHOWERS		BOBBI MASHEK
POC-2	3/18/14	10 am	Grab Sample	9.8	<50 NTU	8.3	6.5-8.5		X		X	NO	clear	0.03	HEAVY RAINS		BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5		X	N/A	N/A	/	/	/	/	/	NORMA HERNANDEZ
POC-4	3/19	2pm	Grab Sample	11.9	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	clear	0.19	Showers		BOBBI MASHEK
POC-5	3/17/14	6:30am	Grab Sample	11.7	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NO	CLEAR	0.96	PARTLY CLOUDY		BOBBI MASHEK
POC-6 (GH1)	3/19	2pm	Grab Sample	20.4	<50 NTU	7.6	6.5-8.5		X		X	Yes, dredging	NO CHANGE	0.19	Showers		BOBBI MASHEK
TEMP POC-6	3/17/14	6:30 am	Grab Sample	17.3	<50 NTU	7.0	6.5-8.5		X		X			0.96	PARTLY CLOUDY		BOBBI MASHEK
POC-7 (GH2)	3/19	2pm	Grab Sample	13.2	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	Yes, dredging	no change	0.19	Showers		BOBBI MASHEK
POC-8 (GH3)	3/19	2pm	Grab Sample	17.8	<50 NTU	7.7	6.5-8.5		X		X	Yes, dredging	no change	0.19	Showers		BOBBI MASHEK
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MARCH 23 – MARCH 29, 2014

TURBIDIMETER	
Model:	LA MOTTE
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	3/3/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1	3/26/14	6:45am	Grab Sample	18.3	<50 NTU	7.6	6.5-8.5		X	N/A	N/A	NO	Clear no change	0.51	RAIN	50/44	BOBBI MASHEK
POC-2	3/26/14	6:45am	Grab Sample	3.3	<50 NTU	6.8	6.5-8.5		X		X	NO	Clear no change	0.51	RAIN	50/44	BOBBI MASHEK
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	3/25/14	2 PM	Grab Sample	9.3	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	NO	Clear no change	0.11	SHOWERS	54/48	BOBBI MASHEK
POC-5	3/24/14	4 PM	Grab Sample	19.5	<50 NTU	7.8	6.5-8.5		X	N/A	N/A	NO	Clear no change	0	SUNNY	67/41	BOBBI MASHEK
POC-6 (GH1)	3/25/14	2pm	Grab Sample	9.2	<50 NTU	7.2	6.5-8.5		X		X	NO	Clear no change	0.11	SHOWERS	54/48	BOBBI MASHEK
TEMP POC-6	3/25/14	2pm	Grab Sample	15.9	<50 NTU	7.0	6.5-8.5		X		X	NO	Clear no change	0.11	SHOWERS	54/48	BOBBI MASHEK
POC-7 (GH2)	3/25/14	2pm	Grab Sample	8.4	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	Clear no change	0.11	SHOWERS	54/48	BOBBI MASHEK
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MARCH 30 – APRIL 5, 2014

TURBIDIMETER	
Model:	LA MOTTE
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	3/3/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	3/31/14	11 AM	Grab Sample	N.A NOT REQUIRED	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	NO	NO CHANGE	0.23	SUNNY	60/38	BOBBI MASHEK
POC-6, (GH1)	3/31/14	11 AM	Grab Sample	9.1	<50 NTU	7.5	6.5-8.5		X		X	NO	NO CHANGE	0.23	SUNNY	60/38	BOBBI MASHEK
TEMP POC-6	3/31/14	11 AM	Grab Sample	17.7	<50 NTU	7.1	6.5-8.5		X		X	NO	NO CHANGE	0.23	SUNNY	60/38	BOBBI MASHEK
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	3/31/14	11 AM	Grab Sample	24.2	<50 NTU	7.6	6.5-8.5		X		X	NO	NO CHANGE	0.23	SUNNY	60/38	BOBBI MASHEK
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTE: As of January 3, 2014, all points of compliance (POC) are monitored under the NPDES Sand and Gravel General Permit (the NPDES Construction Stormwater General Permit has been terminated).

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
APRIL 27- MAY 3, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	130C024079
Calibration Date:	3/31/2014

pH Meter	
Model:	OAKTON
Serial #:	478716
Calibration Date:	2/20/14

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	4/28/14	3:30pm	Grab Sample		<50 NTU	8.2	6.5-8.5		X	✓		NO	NO change	0.07	CLOUDY		NORMA HERNANDEZ
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample	NOT REQUIRED	<50 NTU		6.5-8.5			N/A	N/A						
POC-6 (GH1)	4/28/14	3:30pm	Grab Sample		<50 NTU	7.0	6.5-8.5		X	✓		NO	NO Change	0.07	CLOUDY		NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	4/28/14	3:30pm	Grab Sample		<50 NTU	8.1	6.5-8.5		X	✓		NO	No Change	0.07	CLOUDY		NORMA HERNANDEZ
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MAY 4th – MAY 10TH, 2014

TURBIDIMETER	
Model:	LA MOTTE
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/5/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	5/5/14	11:45	Grab Sample	5.9	<50 NTU	7.0	6.5-8.5		X	N/A	N/A			1.11	LIGHT RAIN		NORMA HERNANDEZ
POC-2	5/9/14	10:30	Grab Sample	19.9	<50 NTU	7.9	6.5-8.5		X		X			1.16			BOBBI MASHEK
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/		N/A	N/A	/	/	/	/	/	/
POC-4	5/5/14	11:45	Grab Sample	3.7	<50 NTU	7.0	6.5-8.5		X	N/A	N/A			1.11	LIGHT RAIN		NORMA HERNANDEZ
POC-5	5/5/14	11:45	Grab Sample	NOT REQUIRED	<50 NTU	7.2	6.5-8.5		X	N/A	N/A			1.11	LIGHT RAIN		NORMA HERNANDEZ
POC-6 (GH1)	5/5/14	11:45	Grab Sample	12.4	<50 NTU	7.7	6.5-8.5		X	X				1.11	LIGHT RAIN		NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5		X	N/A	N/A	/	/	/	/	/	/
POC-7 (GH2)	5/5/14	11:45	Grab Sample	11.1	<50 NTU	7.4	6.5-8.5		X	N/A	N/A			1.11	LIGHT RAIN		NORMA HERNANDEZ
POC-8 (GH3)	5/5/14	11:45	Grab Sample	20.8	<50 NTU	7.7	6.5-8.5		X	X				1.11	LIGHT RAIN		NORMA HERNANDEZ
Discharge to Aberdeen WWTP	NO DISCHARGE	/	Grab Sample	NOT REQUIRED	N/A	/	Obtain WWTP approval	/	/	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	/	/	/	NORMA HERNANDEZ

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 4/21/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MAY 11TH – MAY 17, 2014

TURBIDIMETER	
Model:	LA MOTTE
Serial #:	665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/5/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	5/12	10 AM	Grab Sample	12.7	<50 NTU	7.8	6.5-8.5		X		X	NO	NO CHANGE		SUNNY		BOBBI MASHEK
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	5/12	10 AM	Grab Sample	NOT REQUIRED	<50 NTU	7.7	6.5-8.5		X	N/A	N/A	NO	NO CHANGE		SUNNY		BOBBI MASHEK
POC-6 (GH1)	5/12	10 AM	Grab Sample	13.9	<50 NTU	7.2	6.5-8.5		X		X	NO	NO CHANGE		SUNNY		BOBBI MASHEK
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	5/14	1 PM	Grab Sample	6.4	<50 NTU	7.4	6.5-8.5		X		X	NO	NO CHANGE		SUNNY		BOBBI MASHEK
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 5 – OCT. 11, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	9-9-14

pH Meter	
Model:	ECOTESTr pH2/OAKTON
Serial #:	2213049
Calibration Date:	9-19-14

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
POND 1, CELL 3 Discharge to Aberdeen WWTP	10/10/14	7:30 am	Grab Sample	38.7 (NOT REQUIRED)	N/A	6.2	Obtain WWTP approval		X	YES, 125 mg/L		NOT APPLICABLE	NOT APPLICABLE	0.0	overcast	57°F	RILEY VANNOY

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

10/10/2014: WE VACUUMED OUT WATER + SEDIMENT FROM POND 1 CELL 3, DELIVERED TO ABERDEEN WWTP. GRAB SAMPLE REPRESENTATIVE OF HIGHEST TURBIDITY WAS PROVIDED TO THE ABERDEEN WWTP THIS MORNING FOR TSS ANALYSIS, TEST METHOD SM 2540 D-97.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Riley.Vannoy
Sent: Thursday, October 09, 2014 2:32 PM
To: kscott@aberdeenwa.gov
Cc: Brian.Meythaler; Aaron.Byron; Norma.Hernandez
Subject: Kiewit - State Waste Discharge Permit ST 6223

Follow Up Flag: Follow up
Flag Status: Flagged

Scott,

Per our phone conversation this morning, we are planning on using CCS to vacuum out the rest of the water/slurry sediment from Pond 1.3. KG will follow the same procedure as Pond 1.2 on 9/22/2014. The cleaner water will be conveyed to your treatment facility via our drainage pipe connection and I will inform you ahead of time of the pH and TSS, anticipated flow rate, and estimated volume as required by our State Waste Discharge Permit. The sediment slurry will be delivered to your facility with our hired vacuum trucks (CCS). We have sampled and tested the sediments at the bottom of the ponds and the results were sent to you via Norma Hernandez on 9/22/14.

Thank you for your help in coordinating this effort. Please respond that you have receive this email and have no concerns with this operation.
Please contact me via the cell phone number provided below if you have any questions or need additional information.

Thanks,

Kiewit
Infrastructure Group

Riley Vannoy
Engineer, SR 520 Pontoon Design Build Project

KIEWIT-GENERAL, A JOINT VENTURE
1301 West Heron Street ,PO Box 1786, Aberdeen, WA 98520
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kiewit.com Equal Opportunity Employer

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 12 - OCT. 18, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	10-15-2014

pH Meter	
Model:	ECOTESTR PH2/ OAKTON
Serial #:	221309
Calibration Date:	10-15-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	10-15-2014	10:15AM	Grab Sample	13.1	<50 NTU	6.9	6.5-8.5		✓	N/A	N/A	NO	NONE	0.06	RAIN	62/53	RILEY VANNOY
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	10-15-2014	11:00 AM	Grab Sample	5.7	<50 NTU	7.3	6.5-8.5		✓	N/A	N/A	NO	NONE	0.06	RAIN	62/53	RILEY VANNOY
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)	10-16-2014	8:15 AM	Grab Sample	30.1	<50 NTU	7.6	6.5-8.5		✓		✓	NO	NONE	1.17	CLEAR	66/53	RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	10-16-2014	8:15 AM	Grab Sample	28.7	<50 NTU	7.6	6.5-8.5		✓		✓	NO	NONE	1.17	CLEAR	66/53	RILEY VANNOY
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

10-14-2014: WE STARTED REMOVING ECO-BLOCKS FROM POND 3

10-15-2014: I TESTED THE PH FOR STORMWATER SHEET FLOW FROM PRECAST BED, EAST @ 50-YD LINE. AND IT WAS BELOW 8.5 pH (measured @ 8.1 pH)

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 19 - OCT. 25, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	10-15-2014

pH Meter	
Model:	ECOTESTr pH2/OAKTON
Serial #:	22130249
Calibration Date:	10-15-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	10-21-2014	8:30 am	Grab Sample	3.7	<50 NTU	6.8	6.5-8.5		✓	N/A	N/A	NO	NONE	0.88	LIGHT RAIN	60/54	RILEY VANNOY
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)	10-21-2014	8:30am	Grab Sample	2.3	<50 NTU	7.7	6.5-8.5		✓		✓	NO	NONE	0.88	LIGHT RAIN	60/54	RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	10-21-2014	8:30am	Grab Sample	5.9	<50 NTU	7.8	6.5-8.5		✓	N/A	N/A	NO	NONE	0.88	LIGHT RAIN	60/54	RILEY VANNOY
POC-8 (GH3)	10-21-2014	8:30am	Grab Sample	38.2	<50 NTU	7.6	6.5-8.5		✓		✓	NO	NONE	0.88	LIGHT RAIN	60/54	RILEY VANNOY
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

10-22-2014: Bobbi + Riley installed new steel band around pipe at Pond 1 between Cell 1 and Cell 2 to stop leak

10-23-2014: Bobbi added sand bags @ Precast bed low spots (west and East)

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 19 -OCT 25, 2014

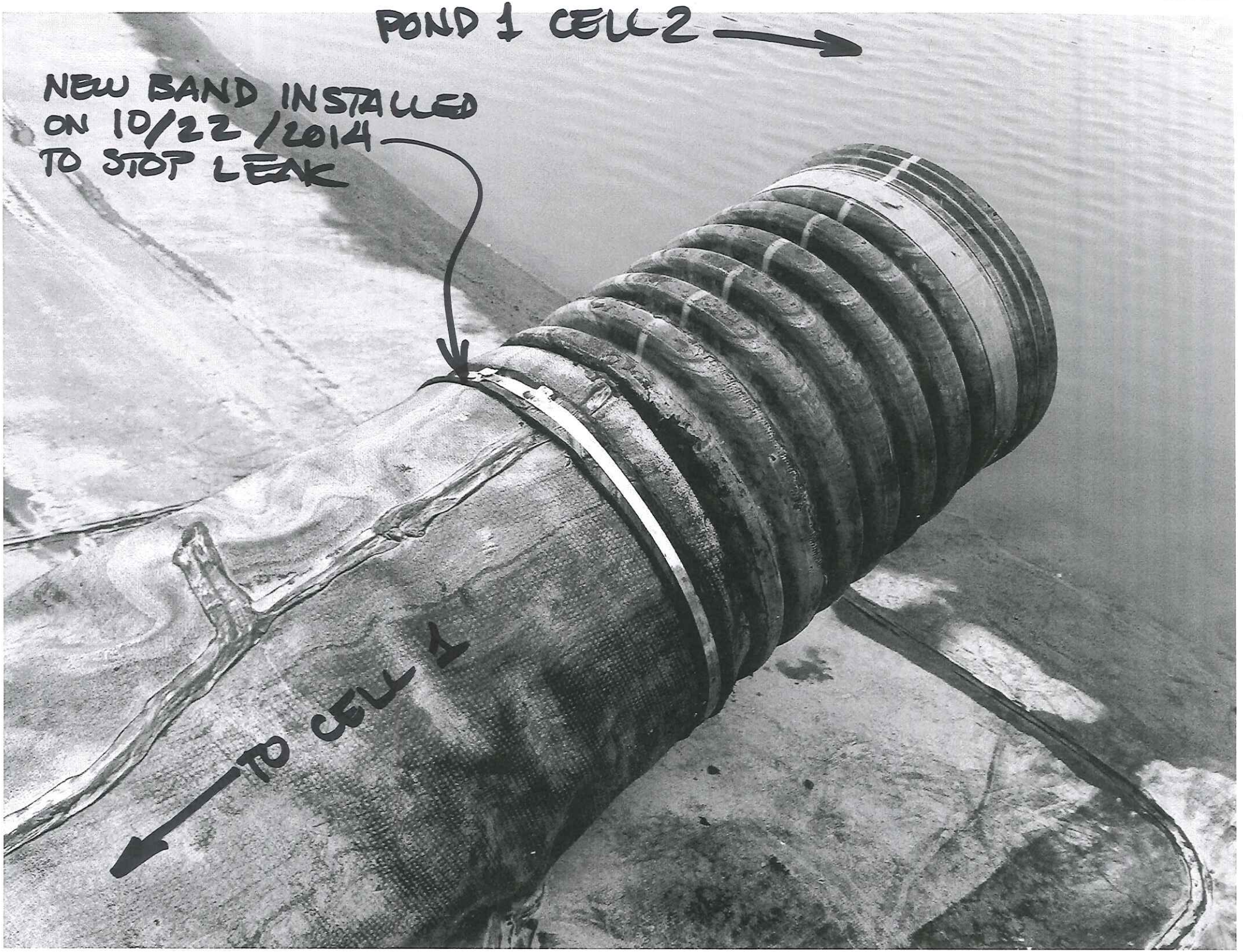
TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	10-15-2014

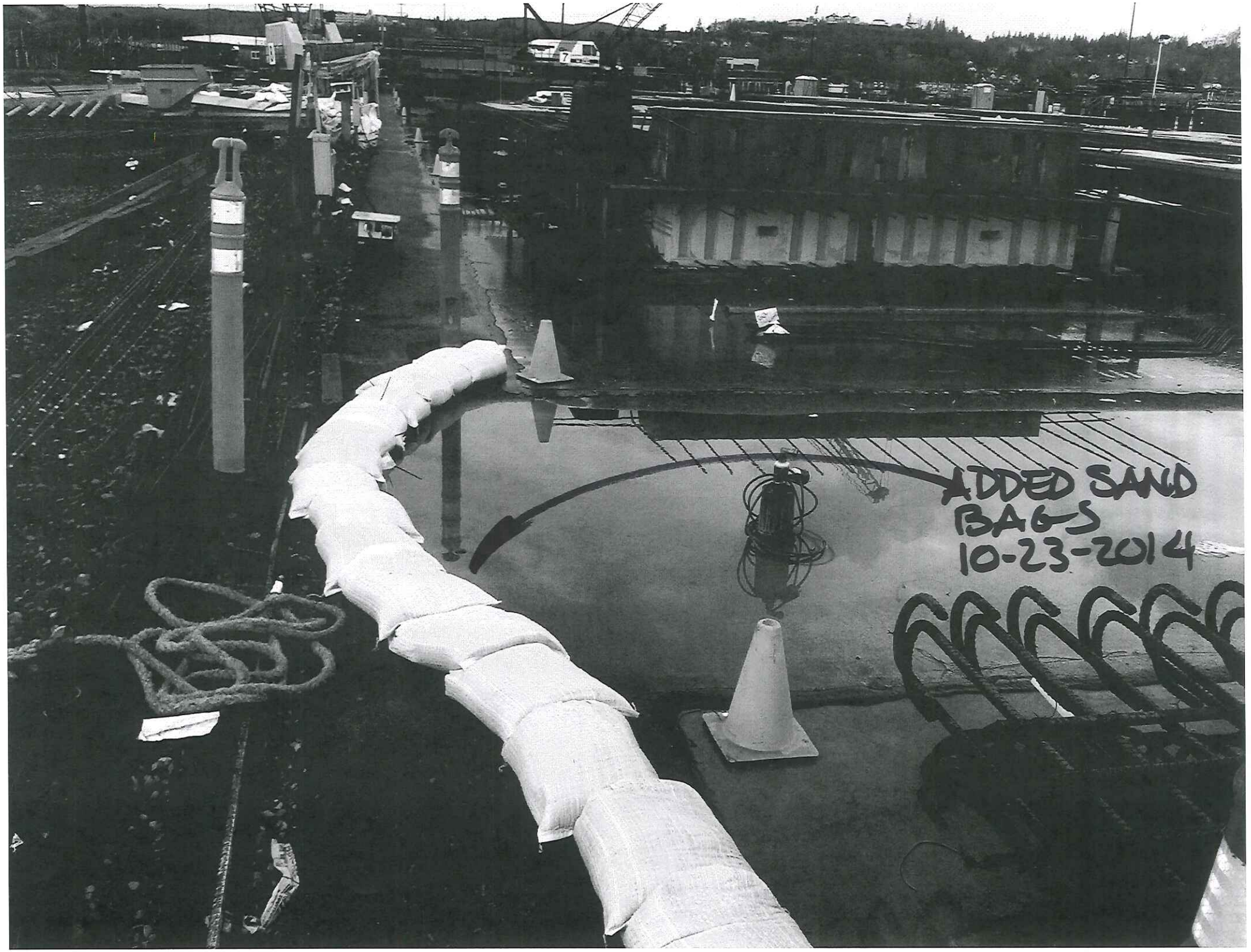
pH Meter	
Model:	ECOTESTR PH2/OAKTON / PH STRIPS
Serial #:	2213049
Calibration Date:	10-15-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	10-23-14	8:00 AM	Grab Sample	6.9	<50 NTU	7.8	6.5-8.5		✓	N/A	N/A	NO	NONE	1.41	RAIN + CLOUDY	59/49	BOBBI DOYLE
POC-2	10-24-14	7:30AM	Grab Sample	15.7	<50 NTU	7.0	6.5-8.5		✓		✓	NO	NONE	0.33	CLOUDY	53/46	NORMA HERNANDEZ
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	10-23-14	8:00AM	Grab Sample	6.5	<50 NTU	7.0	6.5-8.5		✓	N/A	N/A	NO	NONE	1.41	RAIN + Cloudy	59/49	NORMA HERNANDEZ
POC-5	10-24-14	7:30am	Grab Sample	10.0	<50 NTU	7.0	6.5-8.5		✓		✓	NO	NONE	0.33	Cloudy	53/46	NORMA HERNANDEZ
POC-6 (GH1)	10-23-14	8:00AM	Grab Sample	39.4	<50 NTU	7.6	6.5-8.5		✓		✓	NO	NONE	1.41	RAIN + CLOUDY	59/49	BOBBI DOYLE
TEMP POC-6	~~N/A~~ 10-24-14	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5		✓	N/A	N/A	NA	NA	0.33	Cloudy	59/49	NORMA HERNANDEZ
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	10-23-14	8:00 AM	Grab Sample	35.0	<50 NTU	7.6	6.5-8.5		✓		✓	NO	NONE	1.41	~~RAIN~~ Cloudy	59/49	BOBBI DOYLE
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:
10-24-2014: pH meter Stopped Working. We used pH strips. (I tested the strips with the Standard Solutions and found they were reading accurately.) -Norma

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS


POND 1 CELL 2
NEW BAND INSTALLED
ON 10/22/2014
TO STOP LEAK
TO CELL 1


ADDED SAND
BAGS
10-23-2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 26 - NOV. 1, 2014

~~TURBIDIMETER~~ PH METER	
Model:	pH STRIPS
Serial #:	
Calibration Date:	

~~pH Meter~~ TURBIDIMETER	
Model:	2100Q
Serial #:	091 20C 000 295
Calibration Date:	10-23-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	10/27/2014	10:00am	Grab Sample	6.33	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	NO	None	0.16	CLOUDY RAIN	57/42	RILEY VANNOY
POC-2	10/27/2014	10:00am	Grab Sample	19.5	<50 NTU	6.8	6.5-8.5		X		X	NO	None	0.16	CLOUDY RAIN	57/42	RILEY VANNOY
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	10/29/2014	8:30am	Grab Sample	9.4	<50 NTU	7.1	6.5-8.5		X	N/A	N/A	NO	None	0.75	CLOUDY	61/54	RILEY VANNOY
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
OCT. 26 - NOV. 1, 2014

TURBIDIMETER	
~~Model:~~	2100 Q
Serial #:	091200000295
Calibration Date:	10-23-2014

pH Meter	
~~Model:~~	ABERDEEN WWTP
~~Serial #:~~	(see attached)
~~Calibration Date:~~	

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	10/30/14	9:00am	Grab Sample	20.4	<50 NTU	6.7	6.5-8.5		X		X	NO	NONE	0.13	RAIN, CLOUDY	59/53	RILEY VANNOY
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	10/30/14	9:00am	Grab Sample	8.8	<50 NTU	7.2	6.5-8.5		X		X	NO	NONE	0.13	RAIN, CLOUDY	59/53	RILEY VANNOY
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

CITY OF ABERDEEN - CHAIN OF CUSTODY RECORD

1205 W STATE ST, ABERDEEN, WA 98520
PHONE: 360.537.3381 FAX: 360.533.7949
EMAIL: bchristy@aberdeenwa.gov

CLIENT: KIEWIT GENERAL
ADDRESS: 1304 W HERON ST
ABERDEEN WA 98520

PHONE: 360-500-4400
FAX:
EMAIL: RILEY.VANWAY@KIEWIT.COM

PROJECT NAME: 520 PONTOONS
PROJECT LOCATION: ABERDEEN, WA
PROJECT NUMBER: 1004176

PROJECT PO:
CONTACT: RILEY VANWAY 360-591-4796

Sample Identification	Date Stamped	Time Stamped	Container Type		Ammonia as N SM 19/20 4500-NH3 D	Biochamical Oxygen Demand (BOD) SM 5210 B	Oxygen, dissolved (DO) SM 4500-O G	Ph SM 4500-H	Residue-nonfilterable (TSS) SM 2540 D	Total Residual Chlorine SM 4500-Cl G	Turbidity SM 2130 B	Fecal Coliforms SM 9222 D	Temperature	Comments
POC-5	10/30/14	9:00AM	GL					✓					21.0	ph 7.19
POC-2 MH	10/30/14	9:10AM	GL					✓					19.8	Ph - 6.66

RELINQUISHED BY: RILEY VANWAY
DATE/TIME: 10/30/14 11:00 AM

RECEIVED BY:
DATE/TIME: 10/30/14 11:15

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY:
DATE/TIME:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
NOV. 2 - NOV. 8, 2014

TURBIDIMETER	
Model:	2100Q
Serial #:	091200000295
Calibration Date:	10-23-2014

pH Meter	
Model:	HANNA pHep HI98127
Serial #:	01
Calibration Date:	11-3-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	11-5-14	10:00am	Grab Sample	6.3	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	NO	NONE	0.38	RAIN	57/51	RILEY/JANNOY
POC-2	11-7-14	8:00am	Grab Sample	10.4	<50 NTU	6.6	6.5-8.5		X		X	NO	NONE	0.38	CLEAR	59/41	BOBBI WEINMAN
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	11-6-14	1:26pm	Grab Sample	10.3	<50 NTU	7.7	6.5-8.5		X	N/A	N/A	NO	NONE	0.28	RAIN	59/46	BOBBI WEINMAN
POC-5	11-5-14	9:15am	Grab Sample	48.5	<50 NTU	7.0	6.5-8.5		X		X	NO	NONE	0.38	SPRINKLE	57/51	NORMA HERNANDEZ
POC-6 (GH1)	11-7-14	8:00am	Grab Sample	24.7	<50 NTU	7.8	6.5-8.5		X		X	NO	NONE	0.38	CLEAR	59/41	BOBBI WEINMAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	11-3-14	9:00am	Grab Sample	6.3	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	NO	NONE	1.24	RAIN	58/55	BOBBI WEINMAN
POC-8 (GH3)	11-7-14	8:00am	Grab Sample	15.6	<50 NTU	7.0	6.5-8.5		X		X	NO	NONE	0.38	CLEAR	59/41	BOBBI WEINMAN
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

11-4-2014: Per email from DD today, still making Pond 1 Cell 2 into Cell 1. See attached emails.

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

11-5-2014: POC-5 turbidity at outfall appeared to be high, visual observation. See attached email I sent Riley today.

11-6-2014: Per Bobbi Weinman's observations, we believe that the high turbidity @ P.O.C.5 yesterday was caused by the discharge pipe temporary set up at the manhole drainage structure to POC 5, to pump water from Pond 4 into the manhole. We think this caused sediment at the bottom of the manhole to stir up and caused the water to become turbid.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, November 04, 2014 11:35 AM
To: 'Davies, David (520 PCP)'
Cc: Matlock, Dewayne; Ziegler, Dave; Dustin.Donahoo; Riley.Vannoy
Subject: RE: Pond 1 process water flow Cell 2 to Cell 1 - 11/4/14

We monitor for visible sheens daily in all the ponds. We will sample the process water in Cell 2 once a month to test for Total Dissolved Solids (TDS). To clarify, this test is not required under our normal operating procedures, as we typically test for Total Suspended Solids (TSS) which is a different test, and which is done for discharging process water though our POC's to the Surface Waters (such as Grays Harbor).
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

-----Original Message-----
From: Davies, David (520 PCP) [mailto:DavieDa@wsdot.wa.gov]
Sent: Tuesday, November 04, 2014 11:18 AM
To: Norma.Hernandez
Cc: Matlock, Dewayne; Ziegler, Dave; Dustin.Donahoo; Riley.Vannoy
Subject: RE: Pond 1 process water flow Cell 2 to Cell 1 - 11/4/14

Yes, that is my understanding regarding pH. To ensure compliance, will you also be monitoring the flow to Cell 1 for "visible sheen" and Total Dissolved Solids (TDS) applicable for discharges to ground under the permit until such time as the HDPE liner in Cell 1 is repaired?

D. Davies

-----Original Message-----
From: norma.hernandez@kiewit.com [mailto:norma.hernandez@kiewit.com]
Sent: Tuesday, November 04, 2014 11:03 AM
To: Davies, David (520 PCP)
Cc: Matlock, Dewayne; Ziegler, Dave; Dustin.Donahoo@kiewit.com; Riley.Vannoy@kiewit.com
Subject: RE: Pond 1 process water flow Cell 2 to Cell 1 - 11/4/14

Dave,
The pH for the water in Cell 2 of Pond 1 has been consistently below 8 standard units since we started Cycle 6. Per our previous discussion with Sand & Gravel Permit Manager Chris Johnson, this is not a violation and does not require a phone call to Ecology. However, it is our intent to repair this valve so that it does not leak, and Riley is now investigating this issue. I'll let you know of our corrective actions as soon as possible.
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture

Office: (360) 500-4389 / Cell: (602) 516-3817

-----Original Message-----
From: Davies, David (520 PCP) [mailto:DavieDa@wsdot.wa.gov]
Sent: Tuesday, November 04, 2014 10:31 AM
To: Norma.Hernandez
Cc: Matlock, Dewayne; Ziegler, Dave
Subject: Pond 1 process water flow Cell 2 to Cell 1 - 11/4/14

Norma,

For your awareness, please see the attached video I took this morning which shows process water flowing through the cross-connection conduit (or around it) from Pond 1 Cell 2 into cell 1. In mid-October this issue was identified and discussed, and K-G's interim fix included banding the connection pipe and until the HDPE liner could be repaired in Cell 1, K-G determined to exclude any process water from entering Cell 1.

Please let us know your compliance determination given the observed flow of water from Cell 2 to Cell 1 today, and also K-G's long-term plan for a fix and/ or other corrective actions. Thanks.

D. Davies

Norma.Hernandez

From: Norma.Hernandez
Sent: Wednesday, November 05, 2014 9:49 AM
To: Riley.Vannoy
Subject: Turbidity at POC-5

Riley,
Bobbi noted this morning that the turbidity at the POC-5 outfall looked to be really high. I checked it out, and found that the turbidity out of the outfall was 48.5 NTUs, while the groundwater coming in to the manhole from the PVC pipe was only 29.1 NTUs. I am not sure if there was turbid water coming in from the basin via the PVC pipe, or if the infiltration trench "burped" back turbid water into the manhole. Bobbi is working on setting up a flex pipe connected to the PVD pipe so that we are able to move the discharge to any of the three possible locations: back to pond 3, into the manhole (like now), and out to the POC-5 outfall. Let's keep an eye on this.
Thanks!

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
NOV. 9 - NOV. 15, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200C000295
Calibration Date:	10-23-2014

pH Meter	
Model:	EXTECH
Serial #:	256447 and 256456
Calibration Date:	11/6/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1	11-10-14	8:30am	Grab Sample	4.70	<50 NTU	7.2	6.5-8.5		X	N/A	N/A	No	NONE	0.38	overcast	56/38	RILEY VANNOY
* POC-2	11-15-14	10:00am	Grab Sample	42.7	<50 NTU	7.2	6.5-8.5		X		X	No	None	Ø	Clear	47/27	BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	11-13-14	11:00am	Grab Sample	7.56	<50 NTU	7.2	6.5-8.5		X		X	No	NONE	Ø	overcast	44/31	RILEY VANNOY
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	11-10-14	9:00am	Grab Sample	18.0	<50 NTU	7.5	6.5-8.5		X		X	No	None	0.38	overcast		NORMA HERNANDEZ
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:
* POC-2 sample was taken while Cal-Portland was discharging

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
NOV. 16 – NOV. 22, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200C000295
Calibration Date:	10/23/2014

pH Meter	
Model:	EXTECH
Serial #:	256456
Calibration Date:	11/6/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
* POC-1	11-21-14	4:50pm	Grab Sample	60.0	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NO	None	0.17+ 1.24	HEAVY RAIN	55/48	RILEY VANNOY +NORMA H.
	~~11-22-14~~	noon		22.4		6.6			~~X~~		~~X~~						
POC-2	11-18-14		Grab Sample	5.54	<50 NTU	6.5	6.5-8.5		X		X	NO	None	Ø	Clear	49/30	RILEY VANNOY
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	11-17-14	10:00am	Grab Sample	21.0	<50 NTU	7.0	6.5-8.5		X		X	NO	None	Ø	Clear	53/30	RILEY VANNOY +BOBBI W.
POC-6 (GH1)	11-20-14	10:00am	Grab Sample	2.93	<50 NTU	7.6	6.5-8.5		X		X	NO	None	0.04	Rain	53/39	RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	11-21-14	9:00AM	Grab Sample	15.7	<50 NTU	7.6	6.5-8.5		X	N/A	N/A	NO	None	0.17+ 1.24	HEAVY RAINS	55/48	RILEY VANNOY
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

PRECAST BEDS LOW SPOT, EAST 50 YD. LINE+/- ON 11/21/2014 2:30PM = 7.3 pH -Norma H.

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

* 11-21-14: TURBIDITY EXCEEDANCE @ POC-1 WAS REPORTED TO ECOLOGY SAME DAY. FOLLOW-UP REPORT LETTER MUST BE MAILED TO ECOLOGY WITHIN 30 DAYS. RILEY HAS TALKED WITH NIGHT SHIFT/ KEITH FRAZIER TO PLUG THIS OUTFALL IMMEDIATELY.

11-22-14: RILEY DISCOVERED THAT THE NIGHT SHIFT HAD PLUGGED THE WRONG OUTFALL. HE SAMPLED THE WATER @ POC-1 AND FOUND IT TO BE 22.4 NTUS, well within Permit limits

11-21-14: I took sample @ POC-6 for TSS analysis (4:10 pm)

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Friday, November 21, 2014 5:49 PM
To: 'Davies, David (520 PCP)'
Cc: Riley.Vannoy; Ziegler, Dave; Dustin.Donahoo; Robert.Brenner
Subject: RE: Outfall POC-1 discharge tested at 99.8 NTU

Dave,
Riley and I took a sample at the outfall today at 4:50 PM, and tested it to be 60 NTUs. This is an exceedance of our Sand & Gravel General Permit's effluent limit of 50 NTUs, and we are currently working with the night shift to plug the manhole so as to stop the flow. Water will be diverted to Pond 2.
Riley will be in tomorrow to check on the conveyance ditch for this outfall, and we will make a determination whether or not we can pull the plug. KG will investigate BMP options to mitigate this issue for future storm events.
As required by the Sand & Gravel Permit condition S6.E, I have called Chris Johnson/Ecology, and left him a voicemail notifying him of this exceedance, and the actions we took to stop the flow. Additionally, I confirmed that I would write Ecology a follow-up letter within 30 days summarizing this incident and the BMP improvements we decide to implement.
Thanks,

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

From: Davies, David (520 PCP) [mailto:DavieDa@wsdot.wa.gov]
Sent: Friday, November 21, 2014 4:32 PM
To: Norma.Hernandez
Cc: Riley.Vannoy; Ziegler, Dave
Subject: Outfall POC-1 discharge tested at 99.8 NTU
Importance: High

Norma,

I took a sample at Outfall POC-1 this afternoon at 3:40 PM, and tested using WSDOT's calibrated turbidimeter. The result was 99.8 NTU. As you know I don't collect "compliance" samples, but this was an informal WSDOT QV sample and result. I will likely go and collect another sample and run it again prior to leaving the site.

Please let me know K-G's determination of the compliance status of Outfall POC-1 discharge today. Thanks.

Dave Davies
Environmental Compliance Manager
Pontoon Construction Project
SR 520 Bridge Replacement and HOV Program
Washington State Department of Transportation
(360) 500-4427 direct | (253) 310-1562 mobile
1301 West Heron Street | PO Box 1928 | Aberdeen, WA 98520
MS - NP40

Leadership - Focus - Integrity

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

TURBIDIMETER	
Model:	HACH2100Q
Serial #:	091200C000295
Calibration Date:	11-24-2014

pH Meter	
Model:	EXTECH
Serial #:	256456
Calibration Date:	11-6-2014

MONITORING WEEK OF:
NOV. 23 - NOV. ~~29~~ 30, 2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	11-24-14	10:00AM	Grab Sample	4.31	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	NO	None	0.47	~~RAIN~~ OVERCAST	56/39	(RILEY JANNOY)
POC-2	11-24-14	9:30AM	Grab Sample	7.31	<50 NTU	6.5	6.5-8.5		X	✓		NO	None	0.47	overcast	56/39	BOBBI DOYLE, NORMA H.
POC-3	11-2614	1:15PM	Grab Sample	29.1	<50 NTU	8.1	6.5-8.5		X	N/A	~~N/A~~	NO	None	0.73	Drizzling		NORMA H.
POC-4	11-24-14	9:15AM	Grab Sample	11.0	<50 NTU	7.5	6.5-8.5		X	N/A	N/A	NO	None	0.47	overcast	56/39	NORMA H.
POC-5	11-24-14	9:00AM	Grab Sample	7.17	<50 NTU	7.0	6.5-8.5		X	✓		NO	None	0.47	overcast	56/39	NORMA H.
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

11/24/2014: I took sample from POC-5 to test for Total Dissolved Solids. First test run = 12,100 mg/L. Second test run was 12,200 mg/L (Results received 11/26/2014).

11/24/2014: I took sample from leak of Cell #2 into Cell #1 of Pond 1. First test run = 5,060, Second test run = 5,420 mg/L. This water was discharging into detained stormwater of Cell #1, about ~~10~~ 90% full

11/26/2014: I called Ecology to inform them of POTENTIAL exceedance for TDS @ POC-5: See attached email 11/26/2014

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Wednesday, November 26, 2014 3:38 PM
To: Dustin.Donahoo; Aaron.Byron; Riley.Vannoy; Robert.Brenner
Subject: RE: Total Dissolved Solids at POC-5

We currently have a potential permit exceedance at POC-5, here are the details:

1) Lab results confirmed today that the Total Dissolved Solids (TDS) for the ground water being discharged to POC-5 drainage structure/infiltration trench is over 12,000 mg/L. The permit limit is 500 mg/L.
2) I informed Dave Davies of this, and that I would notify Ecology/Chris Johnson.
3) Also, I told Davies that I would contact the original permit manager Scott Morrison to find out if perhaps he did not interpret this groundwater dewatering from beneath the casting basin to be "Mine Dewatering Water", because the DMR form he provided us for this POC only requested that we check for oil sheens. However, neither Davies nor I have any written exception provided from Ecology for the permit conditions as applied to POC-5.
4) I left a voice mail a few minutes ago with Scott Morrison briefly summarizing this situation, and asked him if he could discuss with Chris Johnson.
5) I then called Chris Johnson, and left him a voicemail notifying him of the POC-5's confirmed exceedance, but that I wanted to discuss this further with Scott Morrison based on the DMR form that we originally received from him for this POC, which did not require TDS monitoring.
6) To stop the flow of groundwater into the infiltration trench, we are currently re-routing the PVC pipe so that it will discharge directly to the East Ditch at POC-5's outfall. Discharges to surface water do not require TDS monitoring, but rather turbidity and TSS (Total Suspended Solids). This groundwater has been consistently "clean" with respect to turbidity and TSS, and pH is stable at around 7 standard units.
7) I spoke with Tom Schnetzer this afternoon about this, and he agrees that there should be very little impact to the infiltration trench's groundwater level since we are in the wet season. He asked if I could verify the water elevation, and I did (I will discuss this in a separate email that I am sending Tom S. next).
8) My current theory is that the high dissolved solids test results is caused by salt content in the water, given our proximity to Grays Harbor. I shared this with Chris Johnson this morning, and he recommended that I sample and test the harbor water, then compare to the groundwater at POC-5. Tom Schnetzer also recommended that I take samples from the monitoring wells at the casting basin.

I will keep you posted on this issue as it develops over the next couple of weeks. Chris Johnson is out on vacation until December 15.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

From: Norma.Hernandez
Sent: Wednesday, November 26, 2014 9:58 AM
To: Dustin.Donahoo; Aaron.Byron; Riley.Vannoy; Robert.Brenner
Subject: Total Dissolved Solids at POC-5

I just spoke with Chris Johnson/Ecology about the groundwater infiltration/POC-5 discharge set up. According to Chris, per the Sand & Gravel Permit, the groundwater that we pump from beneath the casting basin is considered "Mine Dewatering Water". When this water is discharged to the ground, as we do in the infiltration trench, the Permit requires that we monitor monthly for Total Dissolved Solids (TDS). We have not been doing this. He confirmed that even if the

water is not "infiltrating", and it just discharging to the outfall, I still have to monitor TDS because the connection to the infiltration trench is open receive the water.

The Water Quality Monitoring Plans have never identified this POC as requiring TDS monitoring, and the DMR forms originally provided to us by Ecology did not indicate that TDS monitoring was required.

I sampled the water going into the drainage structure for POC-5, and took it to the lab on Monday for TDS analysis. I am waiting for lab confirmation of their initial results, but we might be over the permit limit of 500 mg/L. If so, I need to stop sending water to the drainage structure, but instead go directly to the outfall location in the east ditch. I left Tom Schnetzer a voicemail today about this, and asked him to call me back to confirm this was acceptable as a temporary condition (since it's the wet season, I don't think it's a concern with the groundwater level).

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, December 02, 2014 10:07 AM
To: 'smor461@ecy.wa.gov'
Cc: Dustin.Donahoo
Subject: Question regarding the Sand & Gravel General Permit WAG 501544

Hi Scott,
I just wanted to make sure you got my voicemail today reading the question we have for what needs to be monitored at our site's POC-5, per the Sand & Gravel General Permit conditions. I've talked to Chris Johnson about this, but I wanted to follow-up with you as well, and Chris is gone for a couple of weeks.
Please call me on my cell phone when you are able, (602) 516-3817.
Thanks!

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From:	Norma.Hernandez
Sent:	Tuesday, December 02, 2014 3:39 PM
To:	'smor461@ecy.wa.gov'; Johnson, Chris (ECY) (chjo461@ECY.WA.GOV)
Cc:	Dustin.Donahoo; Robert.Brenner; Aaron.Byron
Subject:	Question regarding POC-5 discharges to ground / Sand & Gravel General Permit WAG501544
Attachments:	POC-5 DMR page from 520 ECP Rev 1 03-2011.pdf; Site POCs Map REVISED 2014-11-26.pdf

Scott and Chris,

As follow-up to the voicemails I left each of you last week Wednesday, attached please find our DMR form for the point of compliance POC-5, which discharges both to surface waters and to the ground. This is the form that has been part of our site's Water Quality Monitoring Plan (WQMP) since 2011, corresponding to when we first obtained our Sand & Gravel General Permit number WAG-50-1544. It is my understanding that Ecology provided this DMR form to us based on the activities conducted at this facility. As described in this DMR form, POC-5 corresponds to mine dewatering water being discharged to the ground. Per this form, we are only required to monitor for oil sheens.

Recently, I was advised by our client, WSDOT, that the discharge to ground from POC-5 also requires monitoring for Total Dissolved Solids (TDS), based on the permit conditions. During my phone conversation last week with Chris Johnson, he also interpreted that this discharge required monitoring for Total Dissolved Solids.

As you will recall, the "mine dewatering water" at this site is generated by dewatering pumps beneath the casting basin which are designed to remove excess groundwater in order to relieve the upward pressure to the basin, which was built below sea-level, and below the groundwater table. The site's design engineers intended to replenish the site's groundwater by infiltrating this dewatered water back into the ground via the POC-5, which discharges into an infiltration trench built beneath the parking lot (east perimeter of the site). I believe that based on this type of dewatering activity, the original assignment of the DMR Form was appropriate, and upon further consideration these last few days, I believe it continues to be appropriate. I would much appreciate discussing this further with both of you.

In the meantime, per my voicemails to you last week, we are diverting all the dewatering water so that it discharges directly to the surface water outfall in the site's east ditch, such that there is no water being conveyed to the infiltration trench at all (for surface water discharge, I am monitoring for pH, turbidity, and TSS). We began diverting this water last week, 11/26/2014, because laboratory analysis received on 11/26/2014 indicated that the TDS values exceeded the permit's limitations for discharges to the ground, based on Chris' interpretation of the permit conditions for this discharge. In discussing this with Chris Johnson that day, I shared my suspicion that the high TDS value was very likely due to the salt water conditions, since we are adjacent Grays Harbor.

Please advise when we may jointly discuss this issue. In the meantime, Scott, I appreciate any insight you may have on this, given your early involvement with this permit.

Thank you.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WAG-50-1544
2010 SAND AND GRAVEL GENERAL PERMIT
DISCHARGE MONITORING REPORT
Mine Dewatering Water to Ground Water

NAICS 212321 (Sand & Gravel), NAICS 212322 (Industrial Sand)

NAME/ FACILITY: Kiewit-General, A Joint Venture – SR520 Pontoon Construction Project
LOCATION: 400 East Terminal Way - Aberdeen

(Instructions on Reverse Side)

MONITORING PERIOD

Discharge Monitoring Point: POC-5 **FROM:** ____/____/____ **TO:** ____/____/____

Daily monitoring for visible oil sheen is required at all discharge points or representative locations where water collects prior to discharge each day that equipment operates and runoff occurs.

DAILY MONITORING		
Visible Oil Sheen Detected?	☐ Yes ☐ No	1. If Yes, date detected: _____ If detected more than (1) one day, enter <u>all</u> dates in "Comments" Section or on a separate sheet. 2. If Yes, identify the probable cause of the oil sheen and the actions taken to prevent further contamination under "Comments" or on a separate sheet. Failure to describe control of sheen is a permit violation.

	Parameter	Permit Requirement	Units	# Samples
LIMITS	**Oil Sheen**	**No discharge of sheen to surface waters**	**Yes/No**	**Observe Daily when runoff occurs**

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO $10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

_____ _____

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED) DATE: YEAR MO DAY

_____ _____

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NUMBER

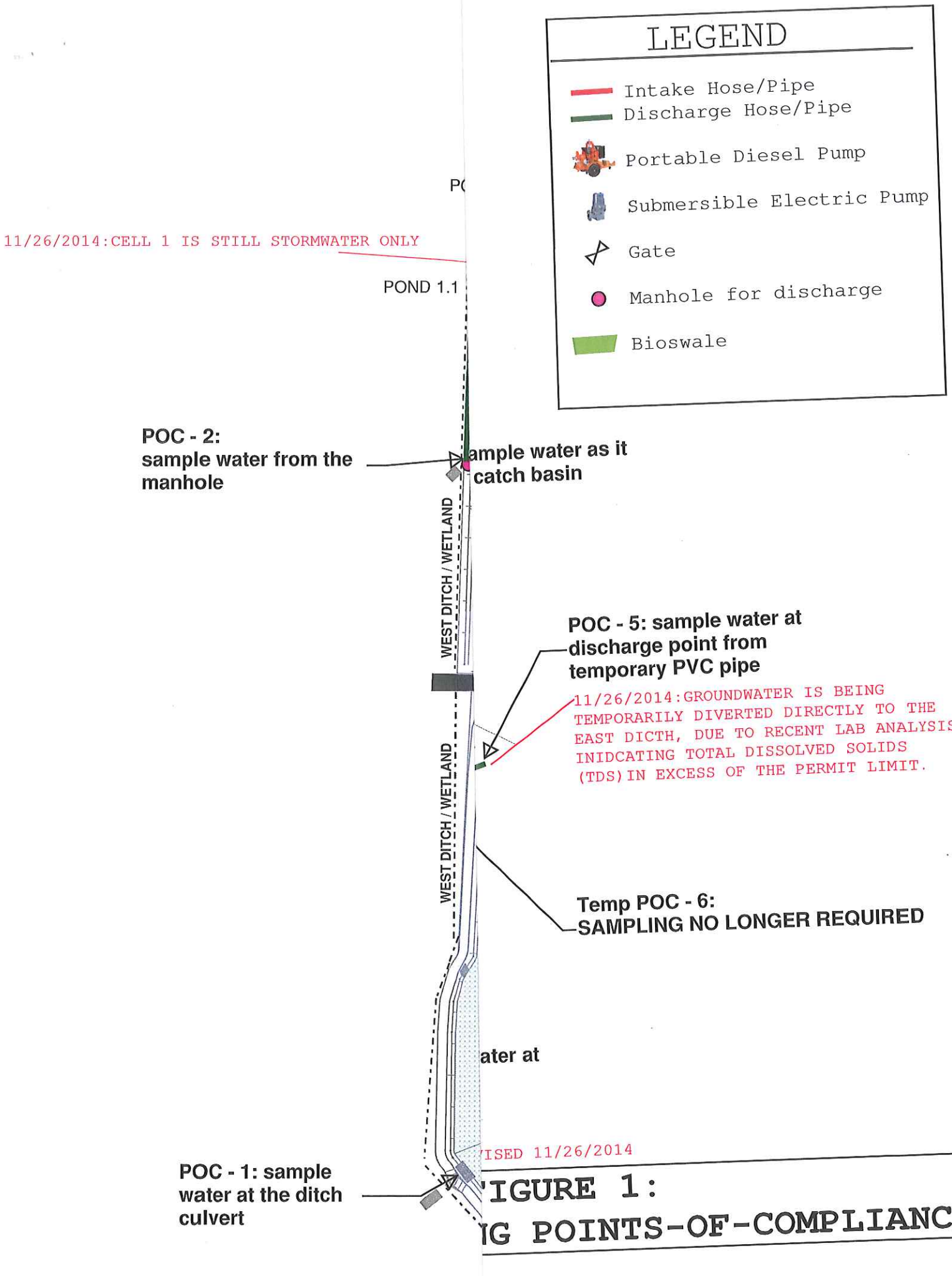
COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*:

Reporting Permit Violations - When the Permittee cannot comply with the permit limits, due to any cause, the Permittee shall: 1. Immediately take action to stop, contain, and clean up the unauthorized discharges or otherwise stop the violation, correct the problem and, if applicable, repeat the sampling and analysis of any violation; 2. The Permittee is required to notify the Ecology Regional Sand and Gravel Permit Manager orally within 24 hours of when the Permittee becomes aware of the circumstances. Refer to Permit Special Condition **S6. E.** on page 26 for additional requirements.

Form 1D

MAIL THIS FORM TO:

Department of Ecology
SW Region WQ Program
Carey Cholski, DMR Coordinator
P O Box 47775
Olympia, WA 98504-7775


LEGEND
Intake Hose/Pipe
Discharge Hose/Pipe
Portable Diesel Pump
Submersible Electric Pump
Gate
Manhole for discharge
Bioswale
11/26/2014:CELL 1 IS STILL STORMWATER ONLY
POND 1.1
POC - 2:
sample water from the manhole
ample water as it
catch basin
WEST DITCH / WETLAND
POC - 5: sample water at discharge point from temporary PVC pipe
11/26/2014:GROUNDWATER IS BEING TEMPORARILY DIVERTED DIRECTLY TO THE EAST DICTH, DUE TO RECENT LAB ANALYSIS INIDCATING TOTAL DISSOLVED SOLIDS (TDS) IN EXCESS OF THE PERMIT LIMIT.
WEST DITCH / WETLAND
Temp POC - 6:
SAMPLING NO LONGER REQUIRED
ater at
ISED 11/26/2014
POC - 1: sample water at the ditch culvert
IGURE 1:
G POINTS-OF-COMPLIANCE

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: DEC. 1 – DEC. 6, 2014 (NOV. 30)

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200C000295
Calibration Date:	10/23/14

pH Meter	
Model:	EXTECH & HANNA
Serial #:	256456 & #1
Calibration Date:	11/12/14 & 11-3-14

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	12-4-14	9:00 AM	Grab Sample	9.16	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NO	NONE	Ø yesterday 0.46 today	RAIN		RILEY VANNOY
POC-2	12-3-14		Grab Sample	24.7	<50 NTU	6.9	6.5-8.5		X		X	NO	NONE				BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	12-4-14	9:00 AM	Grab Sample	6.67	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	NO	NONE	Ø yesterday 0.46 today	RAIN		RILEY VANNOY
POC-5	12-3-14		Grab Sample	12.2	<50 NTU	7.2	6.5-8.5		X		X	NO	NONE				BOBBI DOYLE
POC-6 (GH1)	12-2-14		Grab Sample	12.6	<50 NTU	7.6	6.5-8.5		X		X	NO	NONE				BOBBI DOYLE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	12-4-14	9:00AM	Grab Sample	16.9	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	NO	NONE	Ø yesterday 0.46 today	RAIN		RILEY VANNOY
POC-8 (GH3)	12-2-14	4:00PM	Grab Sample	26.8	<50 NTU	7.9	6.5-8.5		X	✓		NO	NONE	Ø	Clear		NORMA HERNANDEZ
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

TO EAST DITCH

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

12-4-2014: The check dams are working well for turbidity control @ POC-1

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
DEC. 7 - DEC. 13, 2014

TURBIDIMETER	
Model:	HACH 2100Q & OAKTON T-100
Serial #:	09120C000295 2224024
Calibration Date:	10/23/14 12/9/2014

pH Meter	
Model:	EXTECH
Serial #:	256456
Calibration Date:	11/6/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	12/9/14 12/11/14 12/10/14	8:00 AM @:00 AM 8:30 AM	Grab Sample	16.7 14.9 13.9	<50 NTU	6.9 6.7 6.7	6.5-8.5		X	N/A	N/A	NO	NONE. CHECKDAMS WORKING GREAT	1.11 2.09 1.38	RAIN	61/42	RILEY VANNOY
POC-2	12/8/14	7:30am	Grab Sample	2.17	<50 NTU	6.5	6.5-8.5		X		X	No	None		Rain		RILEY VANNOY
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	12/9/14	8:00am	Grab Sample	5.35	<50 NTU	7.1	6.5-8.5		X	N/A	N/A	No	None		Rain		RILEY VANNOY
POC-5	12/8/14	7:30am	Grab Sample	15.7	<50 NTU	6.9	6.5-8.5		X		X	No	None		Rain		RILEY VANNOY
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	12/9/14	8:00am	Grab Sample	2.40	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	No	None		Rain		RILEY VANNOY
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval										

TO EAST PITCH

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

12/10/2014: Heavy Rains yesterday and today, but turbidity is reasonably controled @ POC-1 with checkdams

12/11/2014: Bobbi Doyle noticed leak @ acid pump "A" in pH connex. We switched over to pump "B". I contacted ERIC Hennessy at NW Soil + Cement, he will have a tech come out to investigate and repair if possible.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
DEC. 14 – DEC. 20, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	12-9-2014

pH Meter	
Model:	EXSTIK
Serial #:	256456
Calibration Date:	11-6-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Sampled for TDS? YES	Sampled for TDS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	12-19-14	8:30am	Grab Sample	18.74	<50 NTU	6.5	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NO	0.82	Light rain		RILEY VANNOY
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	12-16-14	9:40am	Grab Sample	8.89	<50 NTU	6.7	6.5-8.5		X		X	N/A	N/A	NO	NO	0.16	Light rain		RILEY VANNOY
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								NO DISCHARGE
POC-6 (GH1)	12-18-14	2:20pm	Grab Sample	15.14	<50 NTU	8.3	6.5-8.5		X		X	N/A	N/A	NO	NO	0.14	gp and on light rain		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	12-18-14	2:20	Grab Sample	5.62	<50 NTU	6.8	6.5-8.5		X		X	N/A	N/A	NO	NO	0.14	gp and on light rain		RILEY VANNOY
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

12-16-2014: We had a hydraulic Fluid spill in the casting Basin from one of our scissor lifts. It is being contained but will require a lot of effort to clean up. See my email to Dustin Donahoo + managers, attached.

12-17-2014: We completed clean-up of yesterday's spill in the casting basin. No sheen has reached the Pond.

12-18-2014: Ben with NW Soil + Cement check the acid pump today. See attach email I sent Riley + Bobbi.

12-19-2014: CHRIS JOHNSON / ECOLOGY visited the site today to review monitoring requirements for POC-5 discharges to the infiltration trench. We also did a site walk/inspection. No violations noted. See attached email for summary of this meeting.

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, December 16, 2014 4:31 PM
To: Dustin.Donahoo; Aaron.Byron; Kelly.Huntley; Riley.Vannoy; Jeffrey.Jackson
Cc: Barbara.Weinman; Lawrence.Andersen; Keith.Frazer
Subject: Hydraulic Fluid Leak/Spill in Basin today

FYI:
We had a hydraulic fluid leak/spill from a scissor lift this morning in the basin, between the pontoons. An estimated half-pint of fluid was probably released, but this is hard to tell because of how much standing water there is in the basin. Fortunately, Ken Singleton took very quick action to contain the spill and stop it from going down the basin drains nearby. Bobbi Weinman has done an excellent job containing the sheen area with oil booms, and is using Absorbent-W to remove the sheen. There is a big area in the basin cordoned off (red tape) where the spill is being contained, but there is still good access for workers, they just need to stay out of the cordoned-off spill area if possible to avoid tracking oils out. Riley and I have already talked to Kelly Huntley and Keith Frazer about this for nightshift operations.

Due to the amount of water impacted, I called Joe at CCS to discuss the possibility of using a vacuum truck to vacuum the oily water out. He came out today before lunch, and based on our visual observations then, and because they cannot take the Absorbent-W to the oil treatment facility, we decided to first remove the Absorbent-W and see if it takes out most of the sheen before calling the vacuum truck. Bobbi and Harvey have been removing this all afternoon (till 4:30) and will resume tomorrow morning. I believe with their continued efforts tomorrow, we will be able to clean this up completely without a vacuum truck.

I informed Dave Davies of this around 4PM in his office. This is <u>not</u> a reportable spill because it has not reached waters of the state.

Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Thursday, December 18, 2014 8:23 AM
To: Riley.Vannoy; Barbara.Weinman
Subject: NW Soil & Cement checked acid pump

Ben just talked to me about the acid pump. There is a broken screw on the back plate, and this is allowing the acid to squirt each time it pumps. He will discuss with his folks, and see if they can get a replacement screw. He cleaned out the pH meters, so they should be a bit more accurate. He could not fix the flow meter, but he'll discuss with Eric and see if there is anything that can be done. He is also going to follow-up on the backflow valve replacement for the other acid pump.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From:	Norma.Hernandez
Sent:	Friday, December 19, 2014 2:39 PM
To:	Dustin.Donahoo; Aaron.Byron; Robert.Brenner
Cc:	Riley.Vannoy
Subject:	Ecology Site Visit today (POC-5 and POC-1)
Attachments:	Question regarding POC-5 discharges to ground / Sand & Gravel General Permit WAG501544

As follow-up to the question we had regarding the water quality monitoring requirements for POC-5 ("mining dewater" discharged to the infiltration trench/ground), Mr. Chris Johnson/Ecology visited the jobsite this morning at 10:00 and met with me, Aaron Byron, Riley Vannoy, and Dave Davies (WSDOT). Attached is the email I sent Ecology on 12/2/2014 summarizing this issue, and requesting for Ecology's clarification.

For today's visit, we initially held a sit-down meeting in our trailer office meeting room to go over the details of the permit, and to review the conditions surrounding the potential exceedance of the Total Dissolved Solids (TDS) parameter for water sampled from POC-5, which I reported to Ecology over the phone on 11/26/2014.

Both Dave Davies (WSDOT) and I re-iterated our position that no operational activities had changed since the completion of the casting basin, and that the DMR form originally provided to us from Ecology for this discharge did not require that we monitor for TDS. I also shared my observation that the DMR form was designated for NCIS activities which were consistent with the activities directly related to the dewatering beneath the casting basin, in so far as the activities would not be expected to impact the water quality with respect to TDS. However, Mr. Johnson indicated that he will take the "conservative approach" and assume that there may be some influence to the water quality due to the site operations, unless we can demonstrate otherwise. In order to support our position that we are not adversely impacting the casting basin's dewatered groundwater, Mr. Johnson suggested possibly obtaining water quality data from groundwater wells around the site, and demonstrating similarities in water quality which would support our premise of "no impact" (aka, site characterization study). However, although this sort of documentation would help Ecology in its determination of whether or not we are adversely impacting the environment when discharging this dewatered groundwater back to the ground, the permit conditions would not be altered or amended, so we would still be reporting exceedances to the TDS limitation every quarter.

Therefore, based on Chris Johnson's determination today that the discharge to the infiltration trench does indeed require monitoring for TDS, we had a reportable permit exceedance on 11/26/2014 (lab results received), for water that was sampled on 11/24/2014. While this was a permit exceedance, Mr. Johnson indicated that no violation enforcement action would be issued, given that we took immediate action to stop the discharge to the ground upon awareness of the exceedance. I will write up a follow-up report letter to Ecology for this incident before 12/25/2014, as required by the permit. Mr. Johnson also provided me with a form to enter all the POC's for the site and all corresponding monitoring parameters, and asked that I submit the completed form to Ecology to update their records. This is the same form I completed and submitted to Ecology on 4/25/2014 (delivered in person) as part of Kiewit-General's response to Ecology's violations warning letter to K-G received on 3/28/2014.

I agreed that I would discuss with Kiewit-General management whether or not a site characterization study would be implemented, but that in the meantime, the dewatered groundwater would only be discharged to surface waters (East Ditch), so that only pH, turbidity , and Total Suspended Solids (TSS) would be monitored as per permit conditions (TDS analysis is not required when discharging to surface waters). We will need to follow-up with HNTB design engineers on the question of how this may impact the intended purpose of the infiltration trench, and if any other action is required to mitigate potential site settlement issues.

After the sit-down meeting, Chris Johnson requested to inspect the BMP improvements we implemented for the turbidity exceedance at POC-1 we had reported to Ecology on 11/21/2014. We walked to the POC location, and inspected the installed check dams in the conveyance ditch. We then walked to POC-5 to observe the dewatered

groundwater being discharge directly to the East Ditch via a temporary PVC pipe outfall we installed adjacent the original POC-5 surface waters outfall.

There were no violations noted during today's inspection. Chris Johnson indicated that he would write up an inspection report, and mail it to us when completed. He left the site at 11:25 AM.

I will post this information in KieTrac next.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
DEC. 21 - DEC. 27, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	12/9/2014

pH Meter	
Model:	EXSTICK
Serial #:	256456
Calibration Date:	12/19/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Sampled for TDS? YES	Sampled for TDS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	12/23	8:30	Grab Sample	33.8	<50 NTU	6.6	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	No change	0.01	Light Rain	55/45	Riley Vannoy
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NOT DISCHARGING		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	12/23	8:30	Grab Sample	10.14	<50 NTU	6.5	6.5-8.5		X	N/A	N/A	N/A	N/A	No	No change	0.01	Light Rain	55/45	Riley Vannoy
POC-5 To East Ditch	12/23	8:30	Grab Sample	13.46	<50 NTU	7.0	6.5-8.5		X		X	N/A	N/A	No	No change	0.01	Light Rain	55/45	Riley Vannoy
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A			NO DISCHARGE					NOT DISCHARGING
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

12-22-2014: Transmission fluid spill along Ring Road today due to leak from the Extreme Fork Lift Crews assisted in the clean up effort all afternoon. Oil was contained.

12-23-2014: Clean up of oily debris from yesterday's spill continued today. Oil was contained, not a reportable spill.

Norma.Hernandez

From: Riley.Vannoy
Sent: Monday, December 22, 2014 5:20 PM
To: DavieDa@wsdot.wa.gov
Cc: Norma.Hernandez
Subject: Forklift ATF Leak on Ring Road

FYI:

Today at roughly 1:00 pm, an Xtreme Forklift blew an ATF line. He leaked a trail from the City Lot to the Fab Yard on the Ring Road. The spill was immediately addressed and contained to the Ring Road. Absorbent material was used and then bagged and placed into drums.

This is not a reportable spill because no fluid reached the waters of the state.
We can discuss this issue further in person tomorrow if needed. I have documented this spill internally.

Thanks,

Kiewit
Infrastructure Group

Riley Vannoy
Engineer, SR 520 Pontoon Design Build Project

KIEWIT-GENERAL, A JOINT VENTURE
1301 West Heron Street ,PO Box 1786, Aberdeen, WA 98520
Cell: (360) 591-4796
kiewit.com Equal Opportunity Employer

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
DEC. 28 (294) - JAN. 3, 2015

TURBIDIMETER	
Model:	
Serial #:	
Calibration Date:	

pH Meter	
Model:	
Serial #:	
Calibration Date:	

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration			Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NO SAMPLES TAKEN OR TESTED THIS WEEK.

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

12-30-2014: The loader Leak Hydraulic oil near the S.W. Precast pad, on ground. oil was immediately contained, but the loader cannot be moved until it is fixed. Mechanics are searching for replacement part. The lining was repaired at the pipe between Cell 1 and Cell ~~2~~ at Pond 1

12-31-2014: added more absorbent-W and oil boom around the Loader, still ~~was~~ waiting on replacement part for fix. If part is not fixed by ~~T~~today, we will wrap the loader with plastic on Friday to protect from rain.

1-2-2014: loader still not fixed. Bobbi will wrap the loader with plastic to protect from rain. Also, drain down the Ponds as much as possible for forcasted rains. Bobbi will come in Sunday morning, and Norma will check the Ponds on Sunday afternoon.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JUNE 29 - JULY 5, 2014

TURBIDIMETER	
Model:	HACH 2100 Q
Serial #:	091200C000295
Calibration Date:	5/5/2014

pH Meter	
Model:	HANNA pHep HI 98127
Serial #:	01
Calibration Date:	5/13/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	6/30/14	8:30am	Grab Sample	36.8	<50 NTU	6.8	6.5-8.5		X	✓		NO	NO change				NORMA HERNANDEZ
POC-6 (GH1)	7/1/14	9:00am	Grab Sample	11.0	<50 NTU	8.0	6.5-8.5		X		X	NO	No change				NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7/2/2014: moved diesel pump from Pond 2, to Pond 4 in order to pump ground water in Pond 4 to Pond 3. Due to warm sunny weather, there is turbidity caused by algae blooms in the water. In order to prevent high turbidity discharge through POC-5, we are pumping the water to Pond 3, where it will combine with cleaner water and discharge out POC-6.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JUNE 22 - JUNE 28, 2014

TURBIDIMETER
Model:
Serial #:
Calibration Date:

pH Meter
Model:
Serial #:
Calibration Date:

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

6/25/2014: Completed regrading the North Bioswale

6/27/2014: Hydro Seeded NORTH DITCH, NORTH BIOSWALE, AND WEST DITCH

6/27/2014: I SAMPLED WATER @ WEST DITCH THAT APPEARED TO HAVE "OIL" SHEEN; though it looks organic, WSDOT's Dave Davies has asked me to confirm with lab test.

6/30/2014: Lab results came back for "oil sheen" @ West Ditch = "NON DETECT"

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Thursday, July 03, 2014 12:04 PM
To: DavieDa@wsdot.wa.gov
Cc: Cody.Bishop; Dustin.Donahoo; Scott.Thompson; KBM.DC520; Michael.Day1
Subject: Sheen at West Ditch POC-2
Attachments: Lab Results=Dragon Lab (2014-06-30)=Sheen on Water West Ditch POC-2.pdf; COC=Dragon Lab (2014-06-27)=Sheen on Water West Ditch POC-2.pdf; 003.JPG

Dave,
Per your suggestion last week, I sampled the water with the sheen in the West Ditch below the POC-2 outfall on Friday 6/27/2014. At the time that I sampled (around 9:30 AM), there was a significant sheen which I was able to collect with the water sample (see attached photo taken just prior to my sampling). I submitted the sample to the lab in Olympia that same day. Lab results were returned to me yesterday as non-detect for any oil. I believe the lab results are consistent with my visual observation of this sheen, that it is organic.
Let me know if you have any questions about this.
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

DRAGON
Analytical Laboratory

RCRA CHAIN OF CUSTODY RECORD

530 A-1 Ronlee Lane. NW, Olympia, WA 98502
Phone: (360) 866-0543 Fax: (360) 866-0556
Email: customerservice@dragonlaoratory.com

Samples Collected By: NORMA H.
Contact Number: _____

Client: KIEWIT-GENERAL
Address: 1301 W. HERON LT. ABERDEEN, WA
Phone: _____
Fax: _____
Email: NORMA.HERNANDEZ.COM
Project Name: SR 520 PONTOONS
Project Location: _____
Project Number: _____
Project P.O.: _____
Contact Person: NORMA HERNANDEZ
DAL Project No.: _____

Matrix Code:
WW = wastewater GW = groundwater S = soil or solid
SL = sludge V = vapor O = other

Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Container Type	BTEX (EPA 8021b)	Gasoline (NWTPH-Gx)	Diesel (NWTPH-Dx)	Diesel & Oil (NWTPH-Dx)	Mineral Oil (NWTPH-Dx)	Fuel Scan (NWTPH-HCID)	Organochlorine Pesticides (EPA 8081)	PCB's (EPA 8082)	Volatiles (EPA 8260)	PAH's (EPA 8100 or 8270/8270SIM)	Semi-Volatiles (EPA 8270)	Ignitability (EPA 1010)	Oil and Grease (EPA 1664 HEM)	pH (EPA 9040/9045)	Specific Conductance (EPA 9050)	Paint Filter Test (EPA 9095)	Heavy Metals* (EPA 6020,7000,7010)	Biogenic Gases (EPA 3C)	Natural Attenuation Indicators	Gross Alpha Radioactivity (EPA 900)	Gross Beta Radioactivity (EPA 900)	VOC's (EPA 8021b)								
WATER GW. DITCH	W	6/27	9:30	G						X																								

Relinquished by (Signature) _____ Date/Time _____ Received by (Signature) _____ Date/Time 6-27-11 11:29
Relinquished by (Signature) _____ Date/Time _____ Received by (Signature) _____ Date/Time _____

Sample Disposal Instructions: ☐ DAL Disposal @ $2.50 per Container ☐ Return ☐ Pickup

Turn-Around-Time
(Work Days)
☐ Same Day
☐ 1 Business Day
☐ 2 Business Day
☐ 5 Business Day
☐ 10 Business Days
☐ Other: _____

***Heavy Metals**: Please circle the desired analytes. Other metals available - please ask.

Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Total
Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Dissolved
Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - TCLP

***Records are destroyed after 7 years**

DRAGON ANALYTICAL LABORATORY

530 A1 Ronlee Ln, Olympia, WA 98502
(360) 866-0543

Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Kiewit-General
1301 W. Heron St.
Aberdeen, WA 98520

Sampled By: Norma H.

DAL Project No.: 140627-09

Project Name: SR 520 Pontoons
Project No.: n/a
P.O. No.: n/a
Date Collected: 6/27/2014; 09:30
Date Received: 6/27/2014; 16:29
Temperature Received (°C): 11
Report Date: 6/30/2014

Preparation Method: US EPA 3510C
Analytical Method: NWTPH-HCID
Date Prepared: 6/30/2014
Date Analyzed: 7/2/2014
Analyst: GD
Data Reviewed By:

Units: µg/L
Matrix: Waste Water
Reporting Limits: Standard
Injection Volume: 3 µL
Instrument ID: Shimadzu GC-14A
Lab Data File: n/a

HCID
ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Method Blank	Water @ W. Ditch
Gasoline Range Organics	8006-61-9	0.25	nd	nd
Diesel Range Organics	68334-30-5	0.63	nd	nd
Oil Range Organics	n/a	0.63	nd	nd
Concentration Factor				200
Data Flags				

DRAGON ANALYTICAL LABORATORY

530 A1 Ronlee Ln, Olympia, WA 98502
(360) 866-0543

Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Kiewit-General
DAL Project No.: 140627-09

Project Name: SR 520 Pontoons
Project No.: n/a

HCID
QUALITY CONTROL RESULTS

SURROGATE RECOVERY

Surrogate	Limits (%)	Method Blank	Water @ W. Ditch
2-FBP	50-150	94.02	87.88

LABORATORY CONTROL SAMPLE AND MATRIX SPIKE

QC Batch ID: 140702-Fuels

Analyte	MS/MSD Limits (%)	MS/MSD Level (µg/L)	Sample Conc. (µg/L)	MS Recovery (µg/L)	MS Percent Recovery	MSD Recovery (µg/L)	MSD Percent Recovery	MS/MSD RPD Limits	RPD	LCS Limits (%)	LCS Level (µg/L)	LCS Recovery (µg/L)	LCS Percent Recovery
Diesel Fuel #2	65-135	500	nd	499	99.8%	n/a	n/a	≤ 50%	n/a	65-135	500	598	119.6%

WA-DOE-Laboratory Certification No.: C890
"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.
"n/a" indicates not applicable

Comments and Explanations: None.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JUNE 15 - JUNE 21, 2014

TURBIDIMETER	
Model:	HACH 2100 Q
Serial #:	091200C000295
Calibration Date:	5/5/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/13/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	6/16	6:30am	Grab Sample	19.2	<50 NTU	6.7	6.5-8.5		X		X	no	no change	0.04	Clear		BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	6/16	6:30am	Grab Sample	23.7	<50 NTU	7.5	6.5-8.5		X		X	no	no change	0.04	Clear		BOBBI DOYLE
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

6/17/2014: START RE-GRADING NORTH BIOSWALE

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JUNE 8 - JUNE 14, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200C000295
Calibration Date:	5/5/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/13/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	6/10	7:30am	Grab Sample	22.2	<50 NTU	7.9	6.5-8.5		X		X	no	no change	0	Clear		BOBBY DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	6/10	7:30am	Grab Sample	14.2	<50 NTU	8.0	6.5-8.5		X		X	no	no change	0	Clear		BOBBY DOYLE (MASHEK)
POC-6 (GH1)	6/10	7:30am	Grab Sample	20.6	<50 NTU	8.1	6.5-8.5		X		X	no	no change	0	Clear		BOBBY DOYLE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

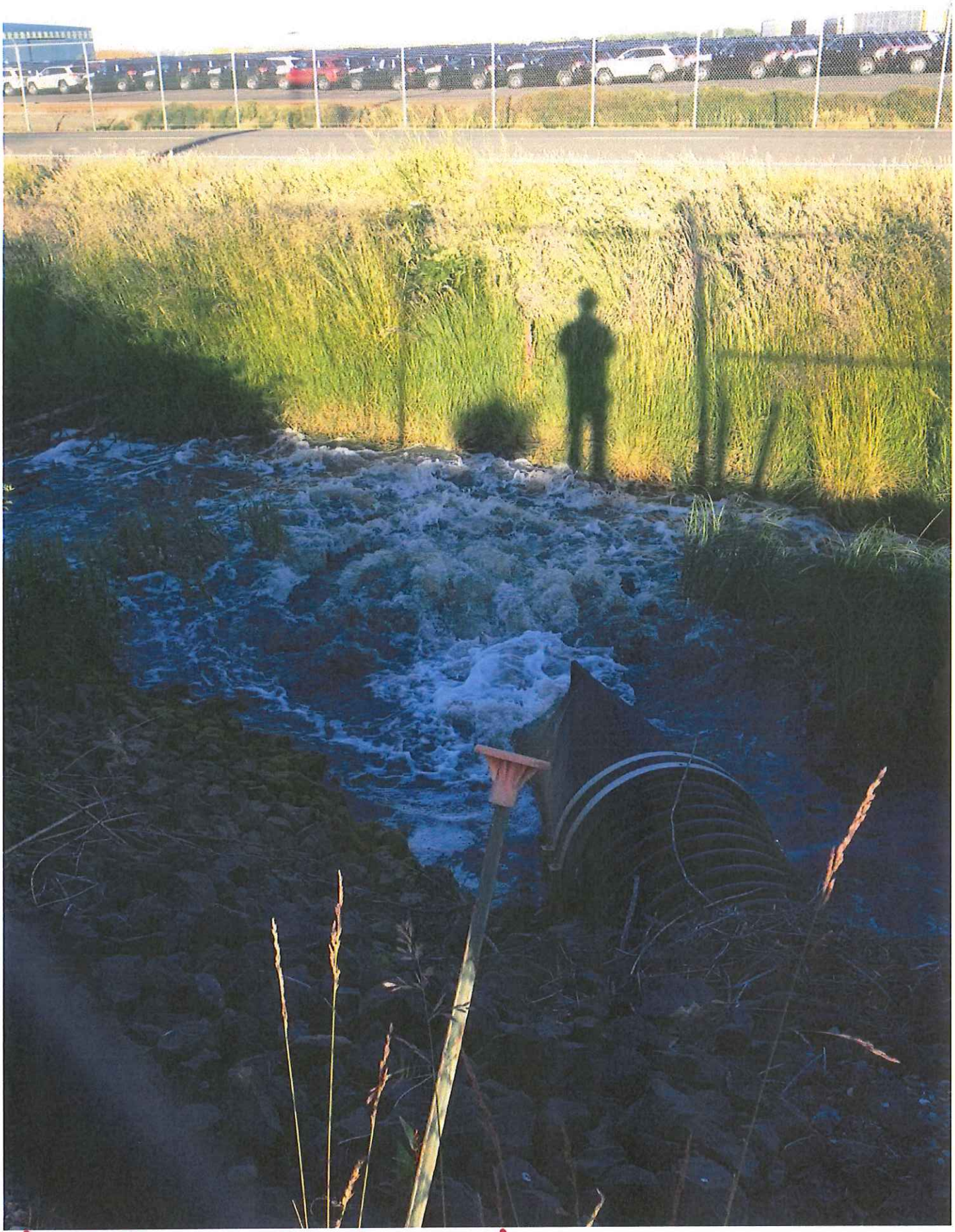
NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

6/9/2014: START RE-GRADING THE NORTH CONVEYANCE DITCH

6/11/2014: FISH WERE FOUND IN POND 3; WE WILL MONITOR & PROTECT, DO NOT USE THE DIESEL PUMP, ONLY GRAVITY OUTFALL. WE ALSO NOTICED THAT RIPRAP UNDER POC-2 HAD BEEN DISPLACED, PROBABLY BY HIGH FLOW ON 6/9/2014

6/13/2014: COMPLETED RE-GRADING THE NORTH CONVEYANCE DITCH

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS



POC-2 6-9-2014

POC-2 6-11-2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 1 - JUNE 7, 2014

TURBIDIMETER	
Model:	HACH 2100 Q
Serial #:	091200000295
Calibration Date:	5/5/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/13/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

6/2/2014: START RE-GRADING THE WEST CONVEYANCE DITCH

6/6/2014: COMPLETED REGRADING THE WEST DITCH

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MAY 25 - MAY 31, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200C000295
Calibration Date:	5/5/14

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/5/14

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	5/28	8:30am	Grab Sample	3.8	<50 NTU	6.9	6.5-8.5		X		X	no	no change	0	Clear		BOBBI MASHEK
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	5/28	8:30am	Grab Sample	29.6	<50 NTU	7.4	6.5-8.5		X		X	no	no change	0	Clear		BOBBI MASHEK
POC-6 (GH1)	5/28	8:30am	Grab Sample	10.9	<50 NTU	6.8	6.5-8.5		X		X	no	no change	0	Clear		BOBBI MASHEK
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
MAY 18TH — MAY 24, 2014

TURBIDIMETER	
Model:	LaMotte
Serial #:	6665-0411
Calibration Date:	2/24/2014

pH Meter	
Model:	HANNA HI 98127
Serial #:	01
Calibration Date:	5/5/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	5/23	11 am	Grab Sample	6.8	<50 NTU	7.3	6.5-8.5		X		X	NO	CLEAR	0	overcast		BOBBI MASHEK
POC-6 (GH1)	5/23	11am	Grab Sample	31.4	<50 NTU	6.7	6.5-8.5		X		X	NO	Clear	0	overcast		BOBBI MASHEK
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
SEPT. 28 - OCT. 4, 2014

TURBIDIMETER
Model:
Serial #:
Calibration Date:

pH Meter
Model:
Serial #:
Calibration Date:

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

9-28-2014: CYCLE 5 FLOAT-OUT AND BASIN FISH HANDLING WAS COMPLETED TODAY.

9-29-2014: BASIN WAS VACCUMED OUT W/VACUUM TRUCKS (CCS), BUT SOME PROCESS WATER WAS PUMPED UP TO POND 1 CELL 3. OUTFALL @ Cell 3 WAS PROTECTED W/FYKE NET TO CATCH ANY FISH. TURBIDITY WAS TOO HIGH TO DISCHARGE, SO WE OPENED GATE TO CELL 2 FOR MORE CAPACITY.

9-30-2014: TURBIDITY @ CELL 2 WAS BELOW 50 NTUs, SO WE ARE ABLE TO DISCHARGE

10-1-2014: WE NOTICED WATER LEAKING INTO POND 1 CELL 1 FROM BELOW THE GATEVALVE PIPE TO CELL 2. RILEY + I sampled the water and it was 7.7 pH. We then sampled the water in Cell 2, also was 7.7 pH. BASED ON THIS pH, and the visual observa of water clarity, we believe the water is from Cell 2. We will pump down Cell 2 today + tomorrow.

10-2-2014: there was a tear in the liner for POND 1 cell 2 below the gate valve pipe to Cell 1. Riley has scheduled for NW LININGS to come out ASAP (next week) to repair.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
SEPT. 21 – SEPT. 27, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	9-19-14

pH Meter	
Model:	ECOTESTr pH 2/OAKTON
Serial #:	2213049
Calibration Date:	9-19-14

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	9-22	9 AM	Grab Sample	16.0	<50 NTU	6.9	6.5-8.5		X	✓		NO	NONE	0	MISTING	61	NORMA HERNANDEZ
POC-3	PUMPED WATER OUT TO POND 1 (9/23)		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	9-23	8:00 p	Grab Sample	13.0	<50 NTU	7.2	6.5-8.5		X	N/A	N/A	NO	NONE	T/E 0.50	RAIN	59	NORMA HERNANDEZ
POC-5	9-22	8:50AM	Grab Sample	15.0	<50 NTU	7.1	6.5-8.5		X	✓		NO	NONE	0	MISTING	61	NORMA HERNANDEZ
POC-6 (GH1)	9-22	8:45AM	Grab Sample	20.4	<50 NTU	7.4	6.5-8.5		X	✓		NO	NONE	0	MISTING	61	NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	GATE TO OUTFALL STILL CLOSED		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP	9-22	10:35	Grab Sample	NOT REQUIRED	N/A	7.9	Obtain WWTP approval		X	Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.	0	MISTING	61	NORMA HERNANDEZ
**	9/25	+/- 9:30pm	grab samples			6.5/6.7			X	NO		NO	NONE	+/- 0.5	RAIN	59°	NORMA HERNANDEZ

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

9-22-2014: We are vacuuming out water + sediments from POND 1 today, sending to ABERDEEN WWTP. ALMOST COMPLETED Vacuuming Cell 2 only today, WILL CONTINUE TOMORROW

9-23-2014: Due to heavy rains, the WWTP cannot accept more vacuum trucks from us today. We are sending the water and sediment from Pond 1 to POND 2. WE COMPLETELY CLEANED OUT CELL 2 TODAY. There was one small puncture in the liner, which we patched temporarily until NW LINING CAN REPAIR

9-25-2014: We shut down Basin Drainage Pumps to prepare basin for Pontoons Float out. Basin will be filled with Harbor Water starting tonight around 10PM
** I sampled the water in the drainage control structures from the precast beds, which drain down to the basin sump pit

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	9-19-14

pH Meter	
Model:	ECOTESTr pH2/OAKTON
Serial #:	2213049
Calibration Date:	9-19-14

MONITORING WEEK OF:
Sept. 14 - Sept. 20, 2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	9-19-14	8:15am	Grab Sample	19.7	<50 NTU	6.7	6.5-8.5		X	X		NO	NONE	0.04	OVERCAST CALM		NORMA HERNANDE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	9-19-14	8:30am	Grab Sample	18.4	<50 NTU	7.2	6.5-8.5		X	X		NO	NONE	0.04	OVERCAST CALM		NORMA HERNANDE
POC-6 (GH1)	9-19-14	8:40am	Grab Sample	34.3	<50 NTU	7.2	6.5-8.5		X	X		NO	NONE	0.04	OVERCAST CALM		NORMA HERNANDE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

9-15-2014: WE ARE STILL TRYING TO ONLY USE POND 1 CELL 3 TO DETAIN & TREAT ALL PROCESS WATER.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: SEPT. 7 - SEPT. 13, 2014

TURBIDIMETER	
Model:	
Serial #:	
Calibration Date:	

pH Meter	
Model:	
Serial #:	
Calibration Date:	

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

9-8-2014: continued to draw down water from PONDS 1 AND 3 USING SUMP PUMPS & GASOLINE PUMPS
9-9-2014: CCS vacuum truck on site to draw down remaining water from POND 1 & POND 3; STARTED FISH ENUMERAT
9-10-2014; CCS vacuum truck on site to draw down water from POND 3; COMPLETED FISH ENUMERATION

FROM NOW ON (UNTIL RAINY SEASON), WE WILL ONLY USE POND 1 CELL 3 AS PROCESS WATER DETENTION, AND TRY TO KEEP OTHER CELLS, INCLUDING POND 3, DRY.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: AUG. 31 - SEPT. 6, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	6/27/2014

pH Meter	
Model:	ECOTESTr pH2 / OAKTON
Serial #:	2213049
Calibration Date:	7/28/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	9/4/14	10:00am	Grab Sample	48.4	<50 NTU	8.3	6.5-8.5		X		X	NO	NO	0	CLOUDY	76/47	BOBBI NYMSHEK
POC-6 (GH1)	9/4/14	9:00am	Grab Sample	32.0	<50 NTU	8.1	6.5-8.5		X		X	NO	NO	0	CLOUDY	76/47	NORMA HERNANDE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

9/2/2014: REMOVED FISH FROM POND 1, CELLS 1, 2, AND 4. FISH WERE MOSTLY STICKLEBACKS. USED DRY ICE TO LOWE PH IN POND 1

9/3/2014: REMOVED FISH FROM POND 3 WEST CELL.

9/4/2014: BEGIN DRAW-DOWN OF WATER FROM POND 1 CELLS 1, 2 AND 3, AS WELL AS POND 3. WATER FROM POND 3 EAST CELL WAS BEING SENT TO POC-5 MANHOLE.

9/5/2014: CONTINUED DRAW-DOWN OF WATER. WATER FROM POND 3 (EAST + WEST) WAS SENT TO POND 4 (WHICH WAS ABOUT 25% FU BECAUSE THE WATER WAS TOO TURBID TO DISCHARGE DIRECTLY TO THE POC'S.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Thursday, September 04, 2014 9:37 AM
To: DavieDa@wsdot.wa.gov; mike.mcdowell@confenv.com; ZiegleD@wsdot.wa.gov
Cc: Cody.Bishop; Dustin.Donahoo; Michael.Schmidt; Josh.Norquist; Aaron.Byron
Subject: RE: Ponds 1 & 3 Fish Removal, Second effort (updated)

Good Morning,
Per our discussion during the ETF Meeting yesterday afternoon, I am providing this email as an update on our fish removal efforts this week for Pond 1 and Pond 3.
As described in my previous email below, we seined and removed fish from Cells 1, 2 and 4 of Pond 1 on Tuesday. We also seined and removed fish from Pond 3's west cell yesterday, Wednesday. Per Mike McDowell, the count of fish removed is estimated at roughly 15,100 total for both days, mostly sticklebacks. Based on the observed seining efforts, and the resulting fish counts, WSDOT and KG agree that the next reasonable action is to draw down the water from all the cells such that WSDOT can perform a final enumeration in order to estimate how many fish were left in the ponds. This draw down will be performed in all the cells today and tomorrow, except Cell 3 of Pond 1 which will be receiving process water from the basin (as you'll recall, we emptied this cell last Friday, and made visual observations of the remaining fish). WSDOT and KG agree that we will not wait to assess the condition of one empty cell in order to begin drawing down the next cell, because there is no additional seining effort KG can implement which will be any more effective given the condition of the pond.
I anticipate that, except for Cell 3 of Pond 1 , all cells in Pond 1 and Pond 3 will be empty by tomorrow, Friday, afternoon.
Let me know if you have any questions about this.
Thank you.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

From: Norma.Hernandez
Sent: Tuesday, September 02, 2014 7:52 AM
To: DavieDa@wsdot.wa.gov; mike.mcdowell@confenv.com; ZiegleD@wsdot.wa.gov
Cc: Cody.Bishop; Dustin.Donahoo; Michael.Schmidt; Josh.Norquist; Aaron.Byron
Subject: Ponds 1 & 3 Fish Removal, Second effort (updated)

Dave,
As per our conversation on Friday, I have updated our fish removal strategy for Pond 1 Cell 1. I also included what we did on Friday for Cell 3. Below is our updated action plan for removal of the fish in the ponds.

1) FRIDAY, August 29, 2014:
   Pond 1 Cell 3: KG drained most of the water from Cell 3 on Friday, August 29th. Norma Hernandez (KG) and Dave Davies (WSDOT) jointly walked the Cell surface around 5PM to make visual observations of the fish remaining. This information, including photos of fish found in the cell and a rough estimate of the number of fish remaining in the Cell, was emailed to Mike McDowell on Friday and today (Tuesday). **HOLD POINT:** After all "dead" fish are confirmed to be removed from Cell 3, fish removal effort from this pond will be officially complete, and I will be able to use this cell as the wet detention cell for receiving water from the basin.

2) TUESDAY September 2, 2014, 7:00 AM:
   Pond 1 Cell 1: Michael Schmidt(KG) and Mike McDowell (WSDOT) will observe current condition of water in Pond 1 Cell 1, on Tuesday morning. They will discuss whether or not fish handling efforts are

still required here. It may be possible to lower the water levels first using the gasoline pumps, in order to make any fish handling effort more effective. **HOLD POINT:** Once empty, Mike McDowell will review the pond condition, and count fish remaining (exact method is not yet determined). The total number of fish left in Cell 1 will be taken into consideration for what we should do in Cell #4, as well as Pond 3, but for now we will follow the actions as described below.

Pond 1 Cell 2: As Cell 1 is being pumped dry (see paragraph above), KG will seine Cell #2. The reason for this seining is because Mike McDowell's fish count for last week's seining there did not show evidence of "diminishing returns", and he thinks there may still be thousands of fish left in this cell. This is a relatively easy cell to work in, and there is very little water in it now, so re-seining should not be complicated. Fish collected will be taken to the fish pens set up at the launch channel dock for identification and count. **HOLD POINT #1:** Mike McDowell and Michael Schmidt will jointly establish "Diminishing Returns". After this consensus is reached, Norma will begin draining the cell dry using a 4" pump and /or portable gas pumps. **HOLD POINT #2:** once the cell is empty Mike McDowell will count any remaining fish as part of the mortality count (exact method is not yet determined). The total number of fish left in Cell 2 will be taken into consideration for what we should do in Cell #4, as well as Pond 3, but for now we will follow the actions as described below.

Pond 1 Cell 4: Based on the findings for Cell 1 and Cell 2, we may or may not seine Cell 4. This will be a determination made by Mike McDowell/WSDOT. If we do seine, the collected fish will be taken to the fish pens at the launch channel dock for identification and count. **HOLD POINT #1**: Mike McDowell and Michael Schmidt will jointly establish "Diminishing Returns". After this consensus is reached, Norma will begin draining the cell dry using the submersible pump (electric) and /or portable gas pumps. **HOLD POINT #2:** once the cell is empty Mike McDowell will count any remaining fish as part of the mortality count (exact method is not yet determined). The total number of fish left in Cell 4 will be taken into consideration for what we should do in Pond 3, but for now we will follow the actions as described below.

Pond 3 East Cell: I will drain the east cell of pond 3 until it is empty (I will start draining in the morning on Tuesday, should be empty by the afternoon) . **HOLD POINT:** Once empty, Mike McDowell will review the east cell condition, and count fish remaining (exact method is not yet determined).

3) WEDNESDAY, 7:00 AM:

Pond 3 West Cell: KG will seine the west cell of Pond 3. The reason for this seining is because Mike McDowell's fish count for last week's seining there did not show evidence of "diminishing returns", and he thinks there may still be thousands of fish left in this cell. **HOLD POINT #1:** Mike McDowell and Michael Schmidt will jointly establish "Diminishing Returns". After this consensus is reached, Norma will begin draining the cell dry using a 4" pump and /or portable gas pumps. **HOLD POINT #2:** once the cell is empty Mike McDowell will count any remaining fish as part of the mortality count (exact method is not yet determined). This last Hold Point may not occur until late in the afternoon, depending on how quickly I can fully drain the pond.

Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Friday, September 05, 2014 5:47 PM
To: DavieDa@wsdot.wa.gov; mike.mcdowell@confenv.com
Cc: Dustin.Donahoo; Michael.Schmidt; Josh.Norquist; Aaron.Byron; Cody.Bishop; Matthew.DiCrescentis
Subject: Fish enumeration in Ponds 1 and 3 rescheduled for Tuesday

Dave & Mike,
The dewatering of the ponds is proving more difficult than anticipated. For Pond 1, I have Cell 1 and Cell 2 ready, but not cell 4 yet. Pond 3 is also not quite done, but should be by Tuesday.
Let's start enumeration Tuesday morning. The quarter-meter boxes will be ready Monday morning.
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
AUG. 24 - AUG. 30, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	6/27/2014

pH Meter	
Model:	ECOTESTr pH 2 / OAKTON
Serial #:	2213049
Calibration Date:	7/28/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	8/25	10:30am	Grab Sample	10.7	<50 NTU	7.7	6.5-8.5		X	✓		NO	NO	0	CLEAR		NORMA HERNAND
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	8/27	1:30pm	Grab Sample	29.9	<50 NTU	7.4	6.5-8.5		X		X	NO	NO	0	CLOUDY		NORMA HERNANDE
POC-6 (GH1)	8/25	10:30am	Grab Sample	15.0	<50 NTU	8.1	6.5-8.5		X	✓		NO	NO	0	CLEAR		NORMA HERNAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

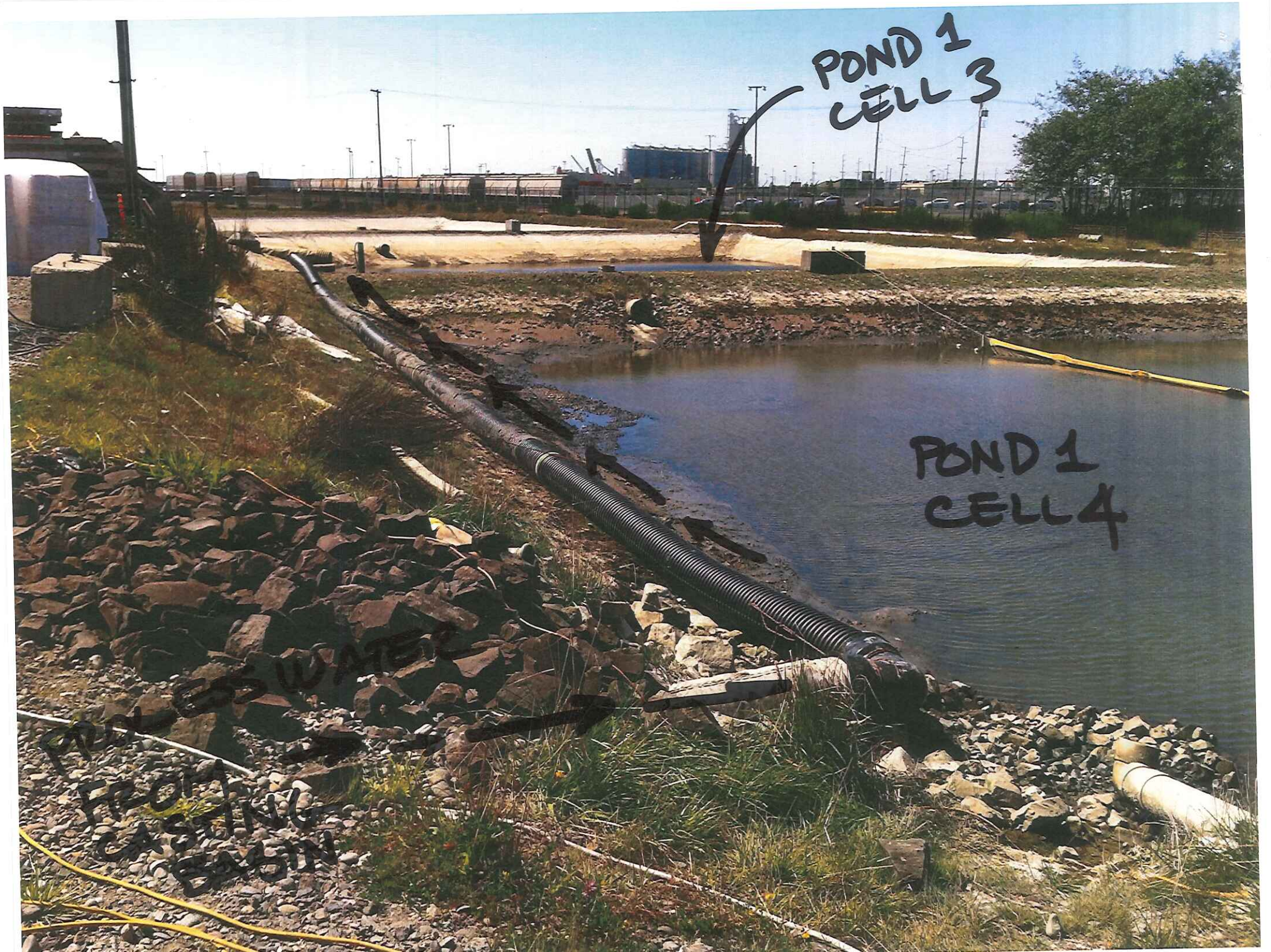
NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

8.26.2014: WE INSTALLED DIVERSION PIPE (HDPE) FOR THE DISCHARGE PIPE INTO POND 1 CELL 4 TO TAKE THE PROCESS WATER PUMPED FROM THE BASIN AND DIRECT IT TO CELL 3 INSTEAD OF CELL 4. THIS IS BEING DONE AS PART OF OUR FISH REMOVAL EFFORT, SINCE CELL 4 HAS THE MOST SOIL WE WANT TO KEEP AS DRY AS POSSIBLE TO ENSURE ANY FISH REMAINING AFTER FISH REMOVAL WOULD NOT CONTINUE TO GROW AND PROPEGATE.

8/29/2014: WE DRAINED DOWN CELL 3 OF POND 1 AND OBSERVED FISH REMAINING, THEY WERE MOSTLY STICKLEBACKS, WITH ABOUT 10 SCULPINS, AND 3 TO 5 FLOUNDERS. TO "DRY" OUT ALL OTHER CELLS OF POND 1, WE WILL USE CELL 3 FROM NOW ON AS THE "WET CELL" FOR PROCESS WATER FROM THE BASIN.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS


POND 1. CELL 4
POND 1
CELL 3
PROCESS
WATER
FROM
CASTING BASIN


POND 1
CELL 3
POND 1
CELL 4
PUMPED WATER
FROM
CASING
BASIN

Norma.Hernandez

From: Davies, David (520 PCP) <DavieDa@wsdot.wa.gov>
Sent: Friday, August 29, 2014 6:02 PM
To: 'mike.mcdowell@confenv.com'
Cc: Norma.Hernandez; Cziesla, Chris (Consultant); Meade, Michelle; Ziegler, Dave; Hanson, Allison
Subject: Examples of fish left in Pond 1 cell 3
Attachments: IMG_1550.MOV; photo.jpg

Mike,

FYI, here is a video and picture I took this afternoon around 5:00pm of the types of fish we saw in Pond 1 cell 3. These are examples only, and by no means a count. The bottom of the pond still had ~ 5 inches of muck, with maybe 1- 2 inches of water on top in some places. Other sections of the pond were just muck. Norma Hernandez and I looked for any species we had not previously seen. We saw stickleback (some still swimming, others already expired in the mud) of various sizes. We also saw starry flounder, and stag horn sculpin. I did not see any other species. It seemed to me there were relatively more sculpin than flounder in this cell.

Norma will write you regarding the status of Cell 3, and her guess on the numbers of fish left. She was walking through the cell most of the afternoon moving hoses and dewatering, so I will defer to her observations and estimate. I would not know how to estimate numbers given some fish were still moving around, especially the stickleback.

Let me know if you have questions.

Dave Davies
Environmental Compliance Manager
Pontoon Construction Project
SR 520 Bridge Replacement and HOV Program
Washington State Department of Transportation
(360) 500-4427 direct | (253) 310-1562 mobile
1301 West Heron Street | PO Box 1928 | Aberdeen, WA 98520
MS - NP40

Leadership - Focus - Integrity

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, September 02, 2014 6:51 AM
To: 'Mike McDowell'; Davies, David (520 PCP)
Cc: Cziesla, Chris (Consultant); Meade, Michelle; Ziegler, Dave; Hanson, Allison; Cody.Bishop; Dustin.Donahoo; Aaron.Byron; Michael.Schmidt; Josh.Norquist
Subject: RE: Examples of fish left in Pond 1 cell 3
Attachments: Examples of fish left in Pond 1 cell 3

Mike,
Sorry for my delayed update on this issue.
I informed Dave Davies on Friday that based on visual observations of the fish in the last remaining pockets of water of Cell 3 Pond 1, I would guesstimate that there were between 1,000 to 5,000 sticklebacks. This is more of a "order of magnitude" guesstimate. Most of these fish were very small, under 3/4 inch.
Of the other species Dave mentioned in his email, I saw about 10 sculpins, and 3 to 5 flounders. We found one of those "worm" looking species, which was included in the photo that Dave emailed you.

-----Original Message-----
From: Mike McDowell [mailto:Mike.McDowell@confenv.com]
Sent: Saturday, August 30, 2014 9:39 AM
To: Davies, David (520 PCP)
Cc: Norma.Hernandez; Cziesla, Chris (Consultant); Meade, Michelle; Ziegler, Dave; Hanson, Allison
Subject: Re: Examples of fish left in Pond 1 cell 3

Dave - Thanks for the update. Looks like the usual suspects. I'll be interested to see Norma's estimated tally of fish.

See you Tuesday.

Mike

Sent from my iPad

> On Aug 29, 2014, at 6:03 PM, "Davies, David (520 PCP)" <DavieDa@wsdot.wa.gov> wrote:
>
> Mike,
>
> FYI, here is a video and picture I took this afternoon around 5:00pm of the types of fish we saw in Pond 1 cell 3. These are examples only, and by no means a count. The bottom of the pond still had ~ 5 inches of muck, with maybe 1- 2 inches of water on top in some places. Other sections of the pond were just muck. Norma Hernandez and I looked for any species we had not previously seen. We saw stickleback (some still swimming, others already expired in the mud) of various sizes. We also saw starry flounder, and stag horn sculpin. I did not see any other species. It seemed to me there were relatively more sculpin than flounder in this cell.
>
> Norma will write you regarding the status of Cell 3, and her guess on the numbers of fish left. She was walking through the cell most of the afternoon moving hoses and dewatering, so I will defer to her observations and estimate. I would not know how to estimate numbers given some fish were still moving around, especially the stickleback.
>
> Let me know if you have questions.
> Dave Davies
> Environmental Compliance Manager
> Pontoon Construction Project
> SR 520 Bridge Replacement and HOV Program Washington State Department

> of Transportation
> (360) 500-4427 direct | (253) 310-1562 mobile
> 1301 West Heron Street | PO Box 1928 | Aberdeen, WA 98520 MS - NP40
>
> Leadership - Focus - Integrity
>
> <IMG_1550.MOV>
> <photo.jpg>

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: AUG. 17 - AUG. 23, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	228024
Calibration Date:	6/27/2014

pH Meter	
Model:	ECOTESTr pH2/OAKTON
Serial #:	2213049
Calibration Date:	7/28/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	8/19	7:30 PM	Grab Sample	30.0	<50 NTU	8.3	6.5-8.5		X	✓		NONE	NONE	0	clear (sunny)		NORMA HERNANDEZ
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	8/19	7:45PM	Grab Sample	25.0	<50 NTU	7.0	6.5-8.5		X		X	NONE	NONE	0	clear (sunny)		NORMA HERNANDEZ
POC-6 (GH1)	8/19	7:30pm	Grab Sample	12.5	<50 NTU	7.9	6.5-8.5		X	✓		NONE	NONE	0	clear (sunny)		NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

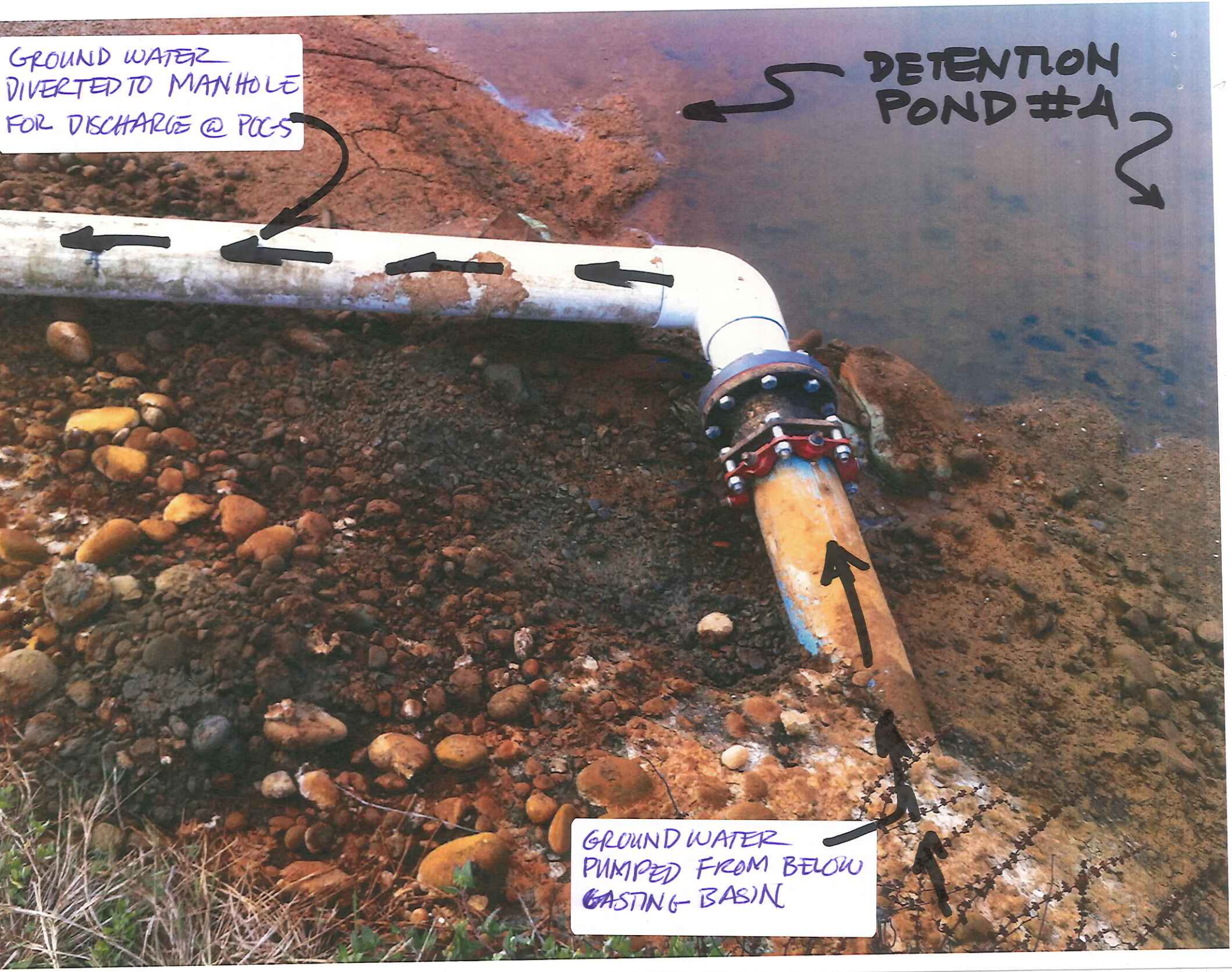
NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

8/20/2014: DISCOVERED THAT QUARRY SPALLS BELOW THE POC-2 OUT-FALL WERE DISPLACED AGAIN, PRESUMABLY DUE TO HIGH VOLUME WATER DISCHARGE. WE WERE RUNING TWO PUMPS (diesel 4" and diesel 6") AT THE SAME TIME; PROBABLY EQUIVALENT TO 1,400 GPM (combined)

8/20 THRU 8/22: WE WERE REMOVING FISH FROM POND 1 on Wendnesday, and Thursday, Then POND 3 on Friday. OVER 80,000 STICKLE BACH FISH WERE COUNTED BY WSDOT BIOLOGIST.

8/22: WE ARE DIVERTING THE GROUND WATER BEING PUMPED FROM BELOW CASTING BASIN SO THAT IT GOES DIRECTLY TO THE DRAINAGE CONTROL STRUCTURE MANHOLE, INSTEAD OF THE DETENTION POND. THE GROUND WATER HAS BEEN CONSISTENTLY CLEAR, BUT WHILE IT SITS IN THE DETENTION POND IT GROWS ORANGE BACTERIA/ALGAE THAT CAUSES HIGH TURBIDITY READINGS. THIS IS WHY WE ARE DIVERTING THE WATER

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS


GROUND WATER DIVERTED TO MANHOLE FOR DISCHARGE @ POC-5
DETENTION POND #4
GROUND WATER PUMPED FROM BELOW CASTING BASIN

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
AUG. 10 - AUG. 16, 2014

TURBIDIMETER
Model:
Serial #:
Calibration Date:

pH Meter
Model:
Serial #:
Calibration Date:

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5										
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

8·11·2014: We are still pumping water from Pond 4 to Pond 3

8·12·2014: The QUARRY SPALLS @ POC-2 outfall in West Ditch have been restored (work completed in AM during low tide)
ALSO, we installed metal mesh screen around submersible pump in Pond 1 cell 4 to protect fish.

8·13·2014: It rained +/- 0.60 inches today. I checked all the outfalls for stormwater discharges. There was no flow at POC1, no flow at POC-3, no flow at POC-4. There was a very small amount of flow out of POC 7, but I shut it down because it read 50 NTUs at the outfall, and over 100 NTUs inside the manhole control structure. I believe the water from the manhole was mixing with cleaner water trapped in discharge pipe, then coming out at the lower turbidity. The water in the manhole structure appears to be turbid due to algae (or bacteria??) NOT due to sediment.
8·14·2014: We installed FYKE BOX fish screen @ INTAKE FOR PUMP @ PONDS.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, August 12, 2014 3:57 PM
To: DavieDa@wsdot.wa.gov
Cc: Dustin.Donahoo; Cody.Bishop; Aaron.Byron
Subject: Fish Screen inastalled at Pond 1 pump

Dave,
We installed a fish screen around the submersible pump at Pond 1 cell 4 today. As I showed you this morning, the screen is made of aluminum wire mesh fabric (like door screen material). It has been provided as a temporary measure to prevent fish from getting sucked into the pump. I expect that it should hold fine through our fish removal effort next week. I used the flow meter around the screen, and occasionally had readings of 0.2 ft/sec, but mostly it read 0.0 ft/sec . During the screen installation process, which occurred inside the pond, we did not observe any fish.
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Minor Operation
Hazard Analysis

Date 8/12/14

Operation: Put fish pump net around flight

Procedure:
(1) get into pond w/ net
(2) put net around pump
(3) get out of pond
(4)
(5)
(6)
(7)

Hazards:
(1) Drowning
(2) Slips & trips
(3) Complacency
(4)
(5)
(6)
(7)

Precautions:
(1) wear life vest
(2) water boat please
(3) stay on task
(4)
(5)
(6)
(7)

Signatures:

HAVE YOU MADE YOUR HAZARD ANALYSIS TODAY?

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: AUG. 3 – AUG. 9, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091202002q5
Calibration Date:	5/5/2014

pH Meter	
Model:	ECOTESTr pH2 / OAKTON
Serial #:	2213049
Calibration Date:	7/28/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	8.6.14	6:30 am	Grab Sample	24.2	<50 NTU	7.8	6.5-8.5		X			NONE	NONE	0	overcast		BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)	8.7.14	6:30am	Grab Sample	14.8	<50 NTU	7.5	6.5-8.5		X			NONE	NONE	0	overcast		BOBBI DOYLE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

8.4.2014: still pumping groundwater from Pond 4 to Pond 3 to control algae growth in POND 4.

8.8.2014: We Placed a Fyke Net box around the intake hose for diesel Pump @ Pond 1 to prevent fish from getting sucked into the pump as we draw down the water. The net seems to be working very well, and water flow through the net is not so strong as to impinge fish, nor is it reducing the pump capacity.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

Date 8-8-14

Minor Operation
Hazard Analysis

Operation: Place Fish Screen on Pump intake

Procedure:
(1) Remove Intake from Pump
(2) Place intake in FYKE net
(3) Move FYKE + intake down
(4) into Pond
(5)
(6)
(7)

Hazards:
(1) Drowning/in Waterlogged
(2) Slipping on liner
(3) Crush points
(4) backstrain/overboard
(5)
(6)
(7)

Precautions:
(1) PPE/life vest
(2) Rope line
(3) Mindful/hand Placement
(4) use legs not back
(5)
(6)
(7)

Signatures

HAVE YOU MADE YOUR HAZARD ANALYSIS TODAY?

Norma.Hernandez

From: Norma.Hernandez
Sent: Friday, August 08, 2014 10:41 AM
To: 'Davies, David (520 PCP)'
Cc: Dustin.Donahoo; Aaron.Byron; Matthew.DiCrescentis; Michael.Schmidt; Josh.Norquist; Cody.Bishop
Subject: RE: Pumping measures and inspections for fish in Ponds 1 and 3?
Attachments: 002.JPG

Dave,
We are using one of the Fyke net boxes to screen the intake for the diesel pump. See attached photo.
For the submersible electric pump, we are preparing a metal fabric mesh that will fit around the aluminum cage supporting the pump.
Bobbi checks the ponds every morning for pH and trubidity, and since you first identified the fish in Pond 3, I have asked her to monitor the ponds for fish during her morning rounds, and let me know if she sees any dead fish. She has not observed any dead fish. We will only document if there are dead fish.
I will test the flow rate for the submersible pump once the screen is installed next week.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

From: Davies, David (520 PCP) [mailto:DavieDa@wsdot.wa.gov]
Sent: Thursday, August 07, 2014 4:23 PM
To: Norma.Hernandez
Cc: Ziegler, Dave; Cziesla, Chris (Consultant); Hanson, Allison
Subject: Pumping measures and inspections for fish in Ponds 1 and 3?

Norma,

This afternoon I observed that K-G is using the portable Godwin pump to move water from Pond 1 Cell 2, and discharge it via Outfall POC-2 to the West Ditch. Yesterday I observed the floating pump in Pond 1 Cell 4 was directing water to Pond 3 (as has been typical practice). Has K-G screened the pump intakes and determined flow rate, or otherwise taken precautions to ensure that fish are not being drawn into the pumps and harmed or killed?

I did not observe any floating or dead fish in either Pond 1 or Pond 3 today. What is K-G's inspection frequency regarding fish in the ponds, and how is it being documented?

D. Davies

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JULY 27 – AUG. 2, 2014

TURBIDIMETER	
Model:	HACH 2100 Q
Serial #:	3943416
Calibration Date:	5/5/2014

pH Meter	
Model:	OAKTON ECOTESTr pH 2
Serial #:	2213017
Calibration Date:	7-28-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	7-31	8:00am	Grab Sample	8.9	<50 NTU	7.9	6.5-8.5		X		X			0	Sunny	75/51	BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	7-31	8:00am	Grab Sample	43.6	<50 NTU	6.9	6.5-8.5		X		X			0	Sunny	75/51	BOBBI DOYLE
POC-6 (GH1)	7-31	8:00am	Grab Sample	8.1	<50 NTU	7.2	6.5-8.5		X		X			0	Sunny	75/51	BOBBI DOYLE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7-31-14: still pumping daily from POND 4 to POND 3 in order to control algae growth in POND 4 (groundwater)

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JULY 20 - JULY 26, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	22280224
Calibration Date:	6/27/2014

pH Meter	
Model:	OAKTON ECOTESTr pH 2
Serial #:	2213017
Calibration Date:	7-1-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1	7-23	NO FLOW	Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	7-23	8:30am	Grab Sample	38.0	<50 NTU	7.0	6.5-8.5		X	✓		NONE	NO CHANGE	+/- 0.5"	Showers		NORMA HERNANDEZ
POC-3	7-23	NO FLOW	Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4	7-23	11:30	Grab Sample	7.0	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NONE	NO CHANGE	+/-0.5"	Showers		NORMA HERNANDEZ
POC-5			Grab Sample		<50 NTU		6.5-8.5										
POC-6 (GH1)	7-23	8:30am	Grab Sample	18.2	<50 NTU	7.7	6.5-8.5		X	✓		NONE	NO CHANGE	+/- 0.5"	Showers		NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)	7-23	11:30am	Grab Sample	10.9	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	NONE	NO CHANGE	+/-0.5	Showers		NORMA HERNANDEZ
POC-8 (GH3)	7-23	NO FLOW	Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7.23.2014: STILL PUMPING DAILY FROM POND 4 TO POND 3 IN ORDER TO CONTROL ALGAE GROWTH/TURBIDITY.

7.22.2014: DD observed live fish swimming in POND 1 Cell 4

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JULY 13 - JULY 19, 2014

TURBIDIMETER	
Model:	HACH 2100Q
Serial #:	091200000295
Calibration Date:	5/5/2014

pH Meter	
Model:	OAKTON ECOTESTr pH 2
Serial #:	2213049
Calibration Date:	7-1-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	7.18	12:30pm	Grab Sample	24.4	<50 NTU	8.2	6.5-8.5		X		X	NONE	No Change	0	overcast	65/54	BOBBI DOYLE
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	7.18	12:30pm	Grab Sample	29.6	<50 NTU	7.6	6.5-8.5		X		X	NONE	No Change	0	overcast	65/54	BOBBI DOYLE
POC-6 (GH1)	7.18	12:30pm	Grab Sample	15.0	<50 NTU	8.2	6.5-8.5		X		X	NONE	No Change	0	overcast	65/54	BOBBI DOYLE
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7.18.2014: We continue to pump water from Pond 4 to Pond 3 as a strategy to reduce turbidity caused by algae bloom

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF:
JULY 6 – JULY 12, 2014

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	22280 24
Calibration Date:	6/27/2014

pH Meter	
Model:	OAKTON ECOTESTR pH2
Serial #:	2213017
Calibration Date:	7-1-2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2	7/7/14	9:15 AM	Grab Sample	11.0	<50 NTU	6.7	6.5-8.5		X		X	NO	NO CHANGE	0	PARTLY CLOUDY	57/73	NORMA HERNANDEZ
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	7/7/14	9:00AM	Grab Sample	32.8	<50 NTU	7.1	6.5-8.5		X		X	NO	NO CHANGE	0	PARTLY CLOUDY	57/73	NORMA HERNANDEZ
POC-6 (GH1)	7/7/14	9:05AM	Grab Sample	15.7	<50 NTU	7.9	6.5-8.5		X		X	NO	NO CHANGE	0	PARTLY CLOUDY	57/73	NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7/7/2014: PUMPING GROUND WATER FROM POND 4 TO POND 3 APPEARS TO BE EFFECTIVE IN OUR ABILITY TO CONTROL ALGAE GROWTH, THEREBY REDUCING TURBIDITY LEVELS. WE WILL CONTINUE IMPLEMENTING THIS STRATEGY UNTIL WE ARE COMFORTABLE WITH TURBIDITY REMAINING BELOW 40NTUs. THIS MAY BE THE STATUS QUO FOR THE SUMMER MONTHS.
The water coming in from the Basin to Pond 4 (groundwater) is crystal clear.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS

EXTRA COPY

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 29 - JULY 5, 2014

TURBIDIMETER	
Model:	HACH 2100 Q
Serial #:	091200C000295
Calibration Date:	5/5/2014

pH Meter	
Model:	HANNA pHep HI 98127
Serial #:	01
Calibration Date:	5/13/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5										
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-5	6/30/14	8:30am	Grab Sample	36.8	<50 NTU	6.8	6.5-8.5		X	✓		NO	NO change				NORMA HERNANDEZ
POC-6 (GH1)	7/1/14	9:00am	Grab Sample	11.0	<50 NTU	8.0	6.5-8.5		X		X	NO	No change				NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5										
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

7/2/2014: moved diesel pump from Pond 2, to Pond 4 in order to pump ground water in Pond 4 to Pond 3. Due to warm sunny weather, there is turbidity caused by algae blooms in the water. In order to prevent high turbidity discharge through POC-5, we are pumping the water to Pond 3, where it will combine with cleaner water and discharge out POC-6.

REVISED MAY 2014: Sample and test POC-5 for turbidity and TSS